As well as ranking in the top 10 of every national university league table, we’re also recognised for the strength of our research and our commitment to entrepreneurship.
Welcome to Loughborough

At Loughborough University we understand the importance of working together, sharing ideas and growing our community.

Our postgraduate community is built on a foundation of academic excellence and an environment where students form enduring professional and personal friendships that are integral to their intellectual development and future careers. Our postgraduates are essential to our research and their contribution is a key part of both their success and ours.

By choosing Loughborough you will make your own individual contribution to excellence and be able to share in our attainment.

I hope that my colleagues, current postgraduate students and I will be welcoming you to either campus soon, so that you too will benefit from the academic excellence that lies at the heart of Loughborough University.

Kind regards,

Professor Robert J. Allison
Vice-Chancellor and President

#LboroFamily
Our postgraduate degrees

We offer a range of postgraduate qualifications at our Loughborough and London campuses, including taught master’s programmes and doctoral qualifications.

Whether you’re looking to enhance your employability, change your career path or continue studying a subject that you love, you’ll find a programme that is right for you at Loughborough.

Taught programmes
Our taught programmes include postgraduate certificates (PGCert) worth 120 credits, postgraduate diplomas (PGDip) worth 150 credits and 180 credit master’s degrees, such as MSc, MA and MBA qualifications, where you will complete a final research project or a work-based project.

Research programmes
We offer a wide range of doctoral qualifications across our schools and institutes. These include:
• PhD
• EngD
• PhD by Practice

A PhD or EngD is the highest academic qualification that you can achieve. Your research must make a significant original contribution to new knowledge, building on your critical appreciation of existing knowledge in the subject.

“Loughborough University to me is the epitome of hard work. From the department staff and researchers to the students, everyone strives to be the best.”

Chris
PhD student

Why Loughborough?

A postgraduate degree from Loughborough will further your subject knowledge and enhance your employability.

Thanks to the quality of our teaching and research, alongside our unrivalled student experience, we consistently score highly in major national rankings. We are currently in the top 10 in every UK league table – something that we are incredibly proud of.

Academic staff
Our reputation attracts outstanding academics from around the world, many of whom are leaders in their field. This means that we can offer you opportunities to learn from passionate subject specialists who are at the forefront of current research.

Our research
The vibrant research culture that is prevalent at Loughborough will provide you with a supportive learning experience and excellent standards of academic supervision.

As well as enabling you to develop specialist skills and knowledge from top-quality research practice, our long-standing relationships with industry and public and private sector organisations will expand your professional network and invite excellent career opportunities.

World-class facilities
Our campuses are not only a welcoming and friendly home for our staff and students, they are also the site of some incredible learning facilities. With purpose-built lecture theatres, state-of-the-art laboratories, libraries, an arts centre, two theatres, dedicated 24/7 computer suites and many more additional teaching spaces, we can offer everything you need to succeed during your studies.

lboro.ac.uk/pg
As one of England's top 10 research-led universities (REF 2014), Loughborough’s research is renowned for its quality and its relevance to business and industry, as well as its impact on society.

Joining a university with a passion for solving real life challenges will enhance your learning experience – you’ll feel inspired by the achievements of the community you’re part of.

We’re proud of the research across all of our academic schools, which spans the arts, design, engineering, health, humanities, mathematics, science, social sciences and sport disciplines, and is supported by £50 million in new research grants every year.

The following are just a few examples that demonstrate the diversity of our research and our commitment to making the world a better place:

- evidencing the UK Minimum Income Standard as the basis for the ‘Living Wage’
- transforming mathematics education in schools
- pioneering exercise intervention as an alternative to conventional medicine
- delivering an annual fuel economy benefit of 20,000kg for a single aircraft.

lboro.ac.uk/research
“The Doctoral College supports researchers through every step of their research journey, through extensive training, collaboration and partnership.”

Professor Elizabeth Peel
Associate Pro Vice-Chancellor (Doctoral College)

Queen’s Anniversary Prizes
In recognition of the benefits that the integration of our teaching, research and enterprise activities bring to culture, economy and society, we have received seven Queen’s Anniversary Prizes for Higher and Further Education in areas of service and benefit to the nation. This includes research into water and sanitation in developing countries, social policy for poor and vulnerable families, and high value manufacturing.

Find out more: lboro.ac.uk/qap

Research Beacons and Global Challenges
The Research Beacons are our broad, internationally recognised and enduring research strengths.

Our Beacons are:
• Built Environment
• Communication and Culture
• High Value Manufacturing
• Sport and Exercise
• Transport Technologies

Our Global Challenges see our disciplinary research strengths combine to develop multidisciplinary solutions to the biggest societal challenges of our time.

Our Global Challenges are:
• Changing Environments and Infrastructure
• Energy
• Health and Wellbeing
• Secure and Resilient Societies

Loughborough Doctoral College
All research students at the University are members of our Doctoral College, which brings together researchers across both our campuses and supports the management and quality assurance of doctoral degrees. The Doctoral College supports our researchers to reach their full potential through a wide range of specialist and transferable skills training. It is situated on our Loughborough campus within Graduate House, a dedicated building that includes a training room and social study space reserved exclusively for postgraduate and mature students.

The doctoral experience
We aim to provide a stimulating and supportive community-based experience for all our doctoral researchers through a range of seminars, conferences, networking opportunities and social events, in addition to our formal training programme. These include an annual research conference, open to all 1,500 members of our doctoral researcher community from across the University; a summer showcase; library training and support; events organised by the PhD Social and Support Network; and a wellbeing programme.

An increasing number of doctoral researchers work with external partners, which helps to shape their research and prepares them for a range of careers within and beyond higher education, including policy development, and industry research and development.

Find out more: lboro.ac.uk/pg/doctoral-college
Information for international students

Loughborough University is a truly global institution with a strong commitment to providing an outstanding learning experience for all students.

We have a long history of welcoming international students and currently have around 4,000 postgraduates studying with us from around 130 countries.

Our International Office are a friendly, experienced and knowledgeable team who are there to help you throughout your time with us, from your initial enquiry to graduation and beyond.

We offer a wide range of support for our international students including:
• a free coach service from Heathrow to our Loughborough (East Midlands) campus on arrival
• financial support
• English language support
• advice and support on immigration, visas and accommodation
• health and wellbeing services
• careers advice and guidance on finding employment during and after your studies.

International Office
+44 (0)1509 222201
international-office@lboro.ac.uk
lboro.ac.uk/international

International entry requirements

The entry requirements listed in this prospectus are based on UK undergraduate degree classifications.

The table below should be used as an approximate guide to some of the equivalent international qualifications accepted by Loughborough University.

<table>
<thead>
<tr>
<th>Standard UK undergraduate degree classification</th>
<th>High 2:1 (65%)</th>
<th>2:1</th>
<th>High 2:2 (55%)</th>
<th>2:2</th>
</tr>
</thead>
<tbody>
<tr>
<td>China: Shanghai Ranking top 250</td>
<td>81%</td>
<td>80%</td>
<td>78%</td>
<td>77%</td>
</tr>
<tr>
<td>China: Shanghai Ranking 251-500</td>
<td>84%</td>
<td>83%</td>
<td>81%</td>
<td>80%</td>
</tr>
<tr>
<td>China: Shanghai Ranking 501+</td>
<td>87%</td>
<td>86%</td>
<td>85%</td>
<td>82%</td>
</tr>
<tr>
<td>India: universities listed on the Indian Ranking of Higher Educational Institutions Framework</td>
<td>63%</td>
<td>60%</td>
<td>58%</td>
<td>55%</td>
</tr>
<tr>
<td>India: all other universities</td>
<td>68%</td>
<td>65%</td>
<td>63%</td>
<td>60%</td>
</tr>
<tr>
<td>Nigeria: GPA 7-point scale</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Nigeria: GPA 5-point scale</td>
<td>-</td>
<td>3.8</td>
<td>-</td>
<td>3.5</td>
</tr>
<tr>
<td>Nigeria: GPA 4-point scale</td>
<td>-</td>
<td>3</td>
<td>-</td>
<td>2.5</td>
</tr>
<tr>
<td>Nigeria: classification</td>
<td>-</td>
<td>Upper second</td>
<td>-</td>
<td>Lower second</td>
</tr>
<tr>
<td>Saudi Arabia: GPA 5-point scale</td>
<td>-</td>
<td>3.75</td>
<td>-</td>
<td>3.5</td>
</tr>
<tr>
<td>Saudi Arabia: GPA 4-point scale</td>
<td>-</td>
<td>3</td>
<td>-</td>
<td>2.8</td>
</tr>
<tr>
<td>Thailand GPA 4.0 scale</td>
<td>3.2</td>
<td>-</td>
<td>2.8</td>
<td>-</td>
</tr>
</tbody>
</table>

The grade equivalences listed in this table should be regarded as a general indication only. Due to the range of factors considered when assessing an application, it is impractical to adhere to exact percentage requirements or equivalences between marks gained in different countries.

If your qualification is not listed above, please see: lboro.ac.uk/pg/english-language
Whether you are located at our Loughborough or our London campus, you will be within easy reach of thousands of popular destinations across the UK, Europe and beyond.

Our excellent transport links are a real asset and enable our students to make the most of their free time during their studies.

We have included indicative prices and travel times to some of our students' favourite destinations, so you can see how well connected our campuses really are.

Rail travel from Loughborough
- Leicester: From 9min, From £4.25 return*
- Nottingham: From 13min, From £6.20 return*
- Derby: From 20min, From £7.75 return*
- London: From 1hr 13min, From £44.55 return*

Rail travel from London
- Manchester: From 2hr 5min, From £41.10 return*
- Birmingham: From 1hr 22min, From £13.95 return*
- Oxford: From 1hr 2min, From £19.35 return*
- Cambridge: From 50min, From £13.30 return*
- York: From 1hr 53min, From £69.50 return*
- Brighton: From 1hr 58min, From £13.45 return*

*With a 16-25 railcard.

All prices correct 31/05/2020 – please note that travel prices and times may vary.

Sources:
- skyscanner.net
- eastmidlandsrailway.co.uk
- thetrainline.com

**We offer a free coach service to international students from Heathrow to our Loughborough (East Midlands) campus on arrival.
Life on our Loughborough campus

Our superb 440-acre single-site campus is among the largest in the country and is recognised as one of the UK’s best green spaces (Green Flag Awards, 2018-19).

With stunning gardens and peaceful open spaces; a rich variety of shops, cafes and leisure amenities; state-of-the-art teaching and research spaces; and the most advanced sports facilities in the country, our campus in Loughborough offers superb facilities for every aspect of university life.

Home to over 21,500 students and staff from more than 130 countries, the campus is both inclusive and inspiring – the perfect place to meet people from all over the world and develop your career in new and exciting ways.

Our campus is self-contained and can be easily negotiated on foot or by cycle (there are plenty of lockable storage areas around for your bike). The free* shuttle bus that runs across campus every few minutes is handy for getting around too – especially on rainy days!
“My favourite thing about the University is the community – it’s been great getting to know people across all disciplines.”

Robert
PhD student

Loughborough student experience

Our beautiful campus is brought to life by a diverse range of experiences that unite students across the University.

Renowned for its strong sense of community, the Loughborough campus is a friendly and welcoming environment with plenty of opportunities to help you find the perfect work-life balance.

Loughborough Students’ Union

With over 170 clubs and societies, social and support networks for postgraduate students, and opportunities to get involved in volunteer work, the Students’ Union plays a vital role in the Loughborough experience.

The Students’ Union is also committed to supporting and representing all students during their time at Loughborough. As well as promoting health and wellbeing, the Students’ Union offers free independent and impartial advice through LSU Advice.

Find out more: lboro.co.uk

LU Arts

Offering a wide variety of creative activities and events, LU Arts is Loughborough’s student-focused extra-curricular arts programme.

Open to all postgraduate students and covering music, creative writing, and visual and performing arts, there is something for everyone to enjoy in their spare time, at all ability levels. Events and activities include evening classes, arts and crafts workshops, music tuition, open mic nights, screenings, talks and exhibitions. Arts scholarships are also available along with an arts grants fund to finance student-led projects and events.

Find out more: lboro.ac.uk/arts

1ST FOR STUDENT EXPERIENCE
TIMES HIGHER EDUCATION STUDENT EXPERIENCE SURVEY 2006-2018

2ND IN THE UK FOR STUDENTS’ UNION WHATuni STUDENT CHOICE AWARDS 2019

lboro.ac.uk/pg/experience
State-of-the-art facilities
Loughborough University houses the country’s largest concentration of world-class facilities across a wide range of sports. They include an indoor athletics centre, an outdoor stadium, multiple sports halls, all-weather pitches, a 50-metre swimming pool, indoor and outdoor tennis courts, and two gyms.

Holywell Fitness Centre is a great place to get active on your own or with friends and includes fitness studios, a sports hall and the latest Technogym equipment. Powerbase is one of the country’s largest strength and conditioning gyms and is designed specifically to maximise athlete performance.

Performance programmes
We offer enhanced high-performance programmes in a range of sports. Those who secure a place in one of our performance squads will receive high quality coaching as well as support in strength and conditioning, nutrition, physiology, performance analysis, and sports medicine.

Get involved
For those with a keen interest in sport, there are 60 clubs to choose from. There are also opportunities to get involved in teams within the halls of residence and our social sport programme.

Our recreational sports opportunities are perfect for those looking to try something new. There are over 30 activities to choose from every week, ranging from indoor cricket to UV Zumba and aqua fit to ultimate frisbee.

Our Coach and Volunteer Academy provides our students with valuable sport-based coaching, volunteering and leadership opportunities to enhance their experience and personal development.

Throughout the year we also host multiple elite level sports events and competitions, so you get the opportunity to see some of the world’s best athletes right on our campus.

Para sport
We have one of the highest populations of para athletes in the UK, including student athletes and those who use Loughborough as a training base. Para sport is rapidly evolving at Loughborough and there is something for everyone, from recreational and performance sport to research and placement opportunities.
Living in Loughborough

Whether you would prefer to live on campus or in Loughborough town, there are plenty of places for you to call home.

Postgraduate accommodation
We offer three self-catered halls of residence for postgraduate students, all located on campus or close by. Rooms are rented on a 50-week basis and are competitively priced.

- **John Phillips** is situated in the student village on campus and is exclusively for postgraduates.
- **Forest Court** is on the edge of the town centre and is rented predominately to postgraduates.
- **Harry French** accommodates a mix of students, with three houses reserved for postgraduates (one of which offers two-bedroom flats for small families).

See our map on page 14 for an indication of where these halls are located.

Privately owned accommodation
The Student Accommodation Centre advertises a wide selection of privately owned accommodation in Loughborough. Suitable for single occupants, couples and families, these properties have been inspected and approved by the University.

Loughborough town centre
A ten-minute walk from campus or a five-minute journey on the local Kinch bus, the town centre is home to a variety of well-known high street shops, boutique stores and a large outdoor twice-weekly market. For entertainment, try the eight-screen cinema complex, Loughborough Town Hall for theatre, comedy and music; or one of the town’s escape rooms. Places to eat include Pizza Express, Nando’s, Starbucks and plenty of independent outlets.

Living costs
We estimate a postgraduate student studying in Loughborough would need approximately £12,000 for the academic year to cover costs for accommodation and other living expenses, excluding tuition fees.

In order to apply for a visa to study with us, the UK Visas and Immigration office will require you to demonstrate that you have at least £1,015* per month available to cover your maintenance costs, up to a minimum annual total of £9,135*.

Support and advice
Student Accommodation Centre
+44 (0)1509 274488
sac@lboro.ac.uk
lboro.ac.uk/accommodation

Student Advice and Support Service
Offering free, confidential and impartial advice on housing issues
+44 (0)1509 222765
advice@lboro.ac.uk

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*lCorrect at the time of printing. For full details and the latest information on applying for a visa, please see www.gov.uk/tier-4-general-visa

lboro.ac.uk/pg/accommodation

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lboro.ac.uk/pg/accommodation

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lboro.ac.uk/pg/accommodation

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lboro.ac.uk/pg/accommodation
• Our campus library has an extensive collection of books, journals and specialist databases. The library is staffed until 2am during term time and open 24/7 during revision and exam periods.

• The Mathematics Learning Support Centre offers support to students who feel they might benefit from additional help with mathematics and statistics.

• Our Centre for Faith and Spirituality provides support and facilities to students of all faiths and backgrounds or none. Facilities include a Christian chapel and a Muslim prayer room.

• Graduate House is a dedicated learning, teaching and social hub for postgraduate taught and research students.

• The Medical Centre offers doctor and nurse appointments for students, as well as lifestyle checks and advice.

• Our Student Advice and Support Service offers free, confidential and impartial advice on immigration, housing, finance and more.

• Our Disability Office can arrange support for students with a wide range of requirements, including physical disabilities, learning differences, sensory impairments and more.

• The Academic Language Support Service offers workshops and resources for students looking to develop their academic writing and study skills, as well as pre-sessional English language courses for international students.

• Our Mental Health Support Team is available to support students with any mental health needs and can provide appropriate practical and pastoral support.

• The University’s Counselling Service offers an opportunity to talk and reflect with a professionally trained person.

Support for Loughborough students

From first-class resources to additional training and one-to-one support, we will provide you with the guidance and tools you need to achieve great things.

lboro.ac.uk/pg/support
Maximising your career prospects

Gaining a postgraduate qualification at Loughborough is not just about academic achievements – it’s also about developing the right skills and experiences to reach your career goals.

The University’s Careers Network can help you to develop your skills, understand your strengths and explore your career options. Our services and resources include:

- one-to-one advice and drop-ins with professional careers consultants
- workshops on career planning and job hunting
- guidance and advice from employers and alumni
- links to thousands of job vacancies and internships
- specialist support and advice for international students
- practice job interviews and assessment centres
- access to information, career planning tools and further resources via our comprehensive website.

Careers Network

careers@lboro.ac.uk
lboro.ac.uk/careers

Support for researchers

Whether your aim is to work in academia or in industry, our careers consultants can help to identify your options and provide practical advice and guidance on how best to market your knowledge, skills and abilities.

Student and graduate enterprise and business support

Loughborough Enterprise Network (LEN) is here to support you on your business or self-employment journey. We provide valuable opportunities for you to develop your skills through events and competitions, training, mentoring and funding, available to both our students and graduates. Alumni (up to five years post-graduation) can apply for a place on our accelerator programme, The Studio. Grow your business while accessing specialist training and one-to-one coaching to bring your business ideas to life.

lboro.ac.uk/students/len
lboro.ac.uk/the-studio

Outstanding Entrepreneurial University

TIMES HIGHER EDUCATION AWARDS 2019

Five Stars for Employability

QS STARS

lboro.ac.uk/pg/careers
Loughborough University London is an inspiring postgraduate campus located on Queen Elizabeth Olympic Park in Stratford, East London.

The campus is part of a vibrant cluster of innovators and creative makers, known collectively as Here East. Bringing together forward thinkers in education, business, technology and media, our unique and inspiring location provides a stimulating environment for all students.

Our partnerships with industry mean our programmes are led by real-world issues and genuine industry challenges.

What’s more, our students learn from influential thought leaders, talented researchers and inspiring academics, who each offer a unique insight into the latest developments within their sector.

Our location 30
London student experience 32
Life on Queen Elizabeth Olympic Park 33
Living in London 34
Support for London students 36
Maximising your career prospects 37

To find out about student life in Loughborough, please see p14.
Located within a dynamic and vibrant new community in East London, Loughborough University London is at the heart of a rich ecosystem of art, creativity and culture.

Through exciting partnerships and collaborative projects, our students and staff are building strong relationships with the creative community in London, and contributing to innovations in a range of industries.

lboro.ac.uk/pg/london-location
Life on Queen Elizabeth Olympic Park

Surrounded by a vast array of world-class sporting, social and cultural venues, Loughborough University London is ideally located at the heart of Queen Elizabeth Olympic Park.

Here East
Home to Loughborough University London, Here East is a thriving, collaborative community which fuses business, technology, media and education to develop the products and services of the future.

Shopping and entertainment
Westfield Stratford City is Europe’s largest urban shopping and leisure centre, with over 250 shops and a growing number of places to eat and drink. Located minutes from the campus, the complex also boasts a 20-screen cinema and futuristic bowling alley.

Restaurants, bars and cafés
Adjacent to the campus is East London’s stylish new social scene, Canalside, which offers a selection of retailers and restaurants for passers-by to eat, shop and relax amidst the narrow boats of the Lee Canal.

Olympic venues
Our students have the opportunity to receive exclusive tickets and volunteering opportunities across the park and can also enjoy a discounted gym membership with access to the Copper Box Arena, London Aquatics Centre and more.

“Being located on Queen Elizabeth Olympic Park has enabled me to continue my interest in sports volunteering. I am an active volunteer for The Park and a local youth service, Young Hackney.”

Lindsay
MSc Sport Analytics and Technologies
Living in London

We understand that choosing a place to live for the duration of your studies is an important decision.

We have partnered with Unite Stratford ONE to offer a number of secure and friendly accommodation options close to campus to suit your lifestyle and budget.

Unite Stratford ONE
Loughborough University has reserved single en suite rooms and studio apartments near Stratford International Station and Westfield Stratford City shopping centre. A free shuttle bus is provided.

Both types of rooms include a private bathroom, study area and large bed, and plenty of storage space. Studio apartments are larger rooms with kitchen facilities and are ideal for couples. The rental fee covers the full cost of Wi-Fi, electricity, heating, water and basic contents insurance.

Student.com
Designed to help students find their home away from home, student.com offers a wide range of rooms that have been built, and are managed, specifically for students. They provide a variety of accommodation types and contract lengths to enable students to find the right home for them. The website has a global team of booking experts who speak 12 languages and provide 24-hour online support alongside a price match promise.

Living in London
We estimate the average cost of living for students in London to be around £15,000 for the academic year. This includes the costs of accommodation and other living expenses, excluding tuition fees. The UK Visas and Immigration office advises London-based international students to have at least £1,265* per month available to cover their living costs, up to a minimum annual total of £11,385*, to be verified at the time of your visa application.

Student Accommodation Centre
The Student Accommodation Centre can offer advice on booking a room at Unite Stratford ONE or searching for accommodation in London.

+44 (0)1509 274488
sac@lboro.ac.uk

Student Advice and Support Service
The Student Advice and Support Service offers free, confidential and impartial advice on understanding your rights and responsibilities under a tenancy agreement and dealing with any problems if they arise.

+44 (0)1509 222765
advice@lboro.ac.uk

*Correct at time of print. Please see www.gov.uk/tier-4-general-visa for the latest requirements.
Support for London students

The support available across both campuses is what makes the Loughborough student experience so special.

Our dedicated team of support staff are available to answer questions and offer assistance with campus facilities and equipment. They are also the first point of call for advice and guidance on matters that might affect your studies.

London Student Support
+44 (0)20 3805 1348
london-enquiries@lboro.ac.uk

Student welfare
Our Welfare Team works to support students with difficulties which impact their studies. Our friendly, professional team provide one-to-one support and organise learning and assessment arrangements to best meet the needs of individuals. The welfare team provides support and guidance for:
- health care
- mental health support
- counselling
- learning difficulties
- disability
- mitigating circumstances.

The Welfare Office
+44 (0)20 3805 1351/1303
london-welfare@lboro.ac.uk

“Whatever challenges you may face along the way, the University will be there to support you.”

Karim
MSc Design Innovation Management

Student Advice and Support Service
Our Student Advice and Support Service offers free, confidential and impartial advice on topics such as visas and immigration, housing and finance. You can speak to the team over the phone or arrange a video call.

Student Advice and Support Service
+44 (0)1509 222765
advice@lboro.ac.uk

Loughborough Students’ Union (LSU)
LSU is here to support, empower and represent you throughout your student journey. They provide free, independent and non-judgemental advice for students going through difficult times with their academic experience.

Loughborough Students’ Union (London)
lslondonadvice@lboro.ac.uk

Centre for Faith and Spirituality
The Centre for Faith and Spirituality is the focus of religious, spiritual and faith-based activities for the University, and works to support students across both campuses. There is a dedicated prayer room at the London campus, and pastoral support available for any student, regardless of their religious or spiritual beliefs.

Centre for Faith and Spirituality
+44 (0)1509 223741
cfschaplains@lboro.ac.uk

Maximising your career prospects

Loughborough University London provides a variety of opportunities for you to develop the skills and attributes you need to reach your career goals.

Throughout the duration of your programme, you will take part in a wide range of activities that have been designed to enhance your personal and professional development. Career development is an intrinsic element of every postgraduate programme at Loughborough University London. From tasks set by real businesses to organisation-based dissertation projects, we will connect you to a wide range of opportunities which will enhance your professional skills and experience. In addition, doctoral students can undertake a placement.

Collaborative Project
A key feature of many of our taught programmes is the Collaborative Project module, where a cross-section of students works together to provide a solution to a brief put forward by a real business or organisation. Each team will master creative ways to negotiate and solve problems, whilst acquiring new industry knowledge and commercial awareness.

Collaborative Project partners have included:

“Whatever challenges you may face along the way, the University will be there to support you.”

Karim
MSc Design Innovation Management

Support for entrepreneurs
We have developed a flexible package of support to ensure that every student has the chance to realise their entrepreneurial ambitions. Whether you are interested in starting a business, are in the process of launching one, or you would simply like to get involved, our Future Space team on campus and our connections to London’s start-up community will give you the experiences, opportunities and insight you are looking for.

“I’ve been able to reach out to different companies and gain an insight into their day-to-day operations and challenges. It’s something that most people would never get to do.”

Lauren
MSc Sport Business and Innovation

lboro.ac.uk/pg/london-support

OUTSTANDING ENTREPRENEURIAL UNIVERSITY TIMES HIGHER EDUCATION AWARDS 2019

1ST IN THE UK FOR EMPLOYER-STUDENT CONNECTIONS QS GRADUATE EMPLOYMENT RANKINGS 2020

Foster – Partners

EDF

NHS

Department for International Trade

BT Sport
Renowned for its ability to drive real-world change, Loughborough’s academic community is built on a shared commitment to developing ground-breaking knowledge and establishing pivotal partnerships within industry.

As a postgraduate student here, you will benefit not only from working with world-leading scholars and like-minded peers, but also from access to high quality professional and pastoral support to help you achieve your ambitions.
The Department of Aeronautical and Automotive Engineering is an engineering specialist centre for teaching and research.

Research with impact
The Department has a strong and expanding research provision centered on four major research groups. The groups cover a broad range of areas, from the development of new low emissions combustion systems for gas turbine engines through to fundamental investigations into operation of hydrogen powered fuel cells.

Partnerships
We have an impressive number of strong strategic partnerships within the sector which aim to bridge the gap between academia and industry. The Rolls-Royce University Technology Centre (UTC) in Combustion System Aerothermal Processes and the Caterpillar Innovation and Research Centre (IRC) in engine systems are both situated within the Department. We also have excellent links with a range of other top engineering companies, including BAE Systems, Bentley, Caterpillar, Cenex, Ford Motor Company, Jaguar Land Rover, Lotus Group, Marshall Aerospace and Defence Group, Mercedes, MIRA, Nissan, Rolls-Royce and Red Bull Racing.

World-class facilities
The £14 million state-of-the-art facilities include laboratories, workshops, wind tunnels, a flight simulator and a technical display area with a BAE Systems Hawk aircraft. In addition there is an anechoic chamber; indoor UAV testing; structures testing facilities; gas-turbine engines; eight purpose built engine test cells; 6-axis simulator (road and aircraft); chassis dynamometer and numerous instrumented test vehicles. The £17 million STEMLab is adjacent to the Department and offers first-class engineering, science and materials laboratories, forming a truly cutting-edge learning facility.

Accreditation
Teaching and research is shaped by industry and partner feedback, ensuring our graduates are prepared for the global job market. In line with the Institution of Mechanical Engineers (I MechE) review process, our programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities. Accredited courses provide a fast-track to full chartered status and are often looked upon favourably by employers, thereby improving career prospects.

Equality and diversity in STEM
We are committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.

Our programmes
Research opportunities PhD p42
Automotive Engineering MSc p43
Research opportunities

PhD: 3 years full-time, 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in engineering, mathematics or science.

Fees: UK: see website International: £24,100

Built on a long successful history, our mission is to deliver world-leading excellence in research, providing translational and transformative technological developments essential for aeronautical and automotive sector evolution and survival. The department benefits from a unique mix of internationally renowned expertise, along with strong industrial partnerships, contributing to its research rich culture. As a new PhD student, you will have the opportunity to not only become an independent researcher, but to create a support network of life-long peers and develop national and international alliances in your chosen research field.

State-of-the-art research facilities

The extensive enhancement of the departmental laboratories in 2020 has ensured that our experimental research capability is state-of-the-art. This includes a new autonomous systems laboratory with indoor unmanned aerial vehicle (UAV) testing and extensive vehicle instrumentation. There is now an integrated powetrain, propulsion, energy conversion and storage laboratory, with whole vehicle hub-dynamometer, new electrified powetrain test capability, battery emulation and extreme temperature battery testing capabilities. Building on our existing world class facilities, these investments are further enriching our internationally recognized research. The newly opened National Centre for Combustion and Aerothermal Technology (NCCAT) strengthens our world-leading capability to lead research excellence in low emission aero gas turbines. Access to the High-Performance Computing centre (HPC Midlands Plus) gives unparalleled processing and big data analytical capabilities for computational research.

Our areas of research

**Connected and autonomous transportation**

Building on an already internationally recognised research pedigree in control of autonomous vehicles, this now extends to tackle the challenges of connected and autonomous transportation. With technological advances investigated in in-vehicle systems, vehicle to vehicle systems and vehicle to infrastructure, improving safety, decreasing congestion and increased freedom of movement is our forecasted impact. In the air, revolutionising health monitoring, risk analysis and mitigation, improved swarm/fleet technology and control, and exploration to new domains (ie agriculture) and their challenges give plentiful opportunity for inspired research.

**Advanced simulation modelling and data-driven engineering**

The rapidly changing landscape of automotive technology, including electrification, connectivity and a zero physical prototyping ambition provides the exciting challenge of a new comprehensive approach to digital vehicle engineering. Providing a platform for integrated, hardware-in-the-loop simulation, development of sustainable and reliable digital twins, coupled with the latest AI and data-driven methods form the strategic research direction for digital tools that provide a more flexible and ambitious approach for all stages of the design, product development and manufacturing process.

**Alternative powertrains for transport energy reduction**

With the surge for greater eco-friendliness, the emergence of alternative powertrains is key to the future transportation mix. Our research explores the breadth of options, with full electrification, hybrid technology, battery modelling, and hydrogen fuel cells. With the current predominance in the automotive sector for both personal and public transportation, movements to explore the design of hybrid, self-generating and super-fast charging systems for electric aircraft provide new and exciting opportunities. Maximising the decarbonisation of transport in a sustainable way is critical, where degradation phenomenon, system health monitoring, integrated through-life support, infrastructure and economic viability also pose challenging research agendas.

**Net-zero combustion**

One future-proof focus for next generation transportation is tackling the reduction of emissions. Complex aerodynamic research on novel gas turbine combustor designs for future aircraft, through both experimental and computational studies, is carried out alongside our long-established Rolls-Royce University Technology Centre and within the EPSRC Centre for Doctoral training in Future Propulsion and Power, in partnership with Oxford and Cambridge. On the automotive side, drag reduction through innovative aerodynamic design, supported by Jaguar Land Rover, and dynamic platooning architectures, coupled with radical developments and research innovations in automotive engine design, lightweight structures and composite materials, combine to create a future vehicle with net-zero emission potential.

Taught programmes

**Automotive Engineering**

**MSc**

Full-time length: 1 year

Part-time length: 3 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in automotive, aeronautical, mechanical, or electrical engineering or a related discipline. Applicants with qualifications slightly below with experience in the automotive industry will be considered.

Fees: UK: £11,400 International: £25,450

**Programme overview**

Created with industry partners, including Ford and Jaguar Land Rover, the programme aims to develop your skills and knowledge of the next generation of vehicles and prepare you for a career in the fast-paced automotive sector. You will have access to MIRA proving ground, and use MATLAB, and Simulink software for technical computation.

**Modules**

Study areas may include: Autonomous Vehicles, Body Engineering, Embedded Software Engineering, Hybrid and Electric Vehicles, Research Methods, Technical Computing, Vehicle Aerodynamics, Vehicle Performance and an individual research project.

**How you will be assessed**

You will be assessed by a combination of case studies, coursework, interactive tests, group work, laboratory reports, presentations and a dissertation.

**How you will study**

You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars, supervision and tutorials. The programme is taught primarily using semester long modules, and it requires significant independent work in addition to the scheduled contact hours.

**Career prospects**

We are committed to helping you develop the skills and attributes needed to progress successfully in your chosen career. Sought after by a wide range of companies, our graduates are employed by Airbus, Cummins, Deloitte, Jaguar Land Rover, Rolls-Royce and Sky. Roles include: Software Engineer, Structural Dynamics Engineer, Purchase Engineer, and Engineering Consultant in Motorsports.
The School of Architecture, Building and Civil Engineering is a leading integrated centre for research and teaching for the built environment. It contains the highest ranked and most research-intensive building energy research group in the UK according to the UK Government's most recent research assessment (REF, 2014).

Research with impact
We are heavily involved in the UK Collaboratorium for Research on Infrastructure and Cities (UKCRIC) and have a world-leading reputation in the development of additive manufacturing methods for construction.

Partnerships
We have an impressive number of strategic partnerships within the sector which aim to bridge the gap between academia and industry, with colleagues from industry contributing guest lectures to our teaching programmes. Our graduates secure a range of roles in a diverse set of organisations, including Arup, Atkins, Balfour Beatty, Kier Group, Morgan Sindall, Oxfam, Transport for London and WaterAid to name a few. The School is also a corporate affiliate member of the Association of Project Management.

World-class facilities
Students benefit from access to state-of-the-art teaching facilities and extensive laboratory space. Our 3,000m² open-plan laboratory space includes a robotics-based concrete additive manufacturing capability, environmental chambers and structural testing equipment for investigating the properties of building materials, hydraulics laboratories as well as a virtual reality suite.

Accreditation
Teaching and research is shaped by industry and partner feedback, which ensures that our graduates are well-prepared for the ever-changing global jobs market.

Accreditation by the Chartered Institute of Building (CIOB), the Royal Institution of Chartered Surveyors (RICS), the Chartered Institution of Water and Environmental Management (CIWEM) or the Joint Board of Moderators (Institution of Structural Engineers, Institution of Civil Engineers, Chartered Institution of Highways and Transportation, Institute of Highway Engineers) facilitates progression towards Chartered Engineer (CEng) status after a period of relevant graduate-level employment.

Equality and diversity in STEM
We are committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and celebrates and encourages diversity. Our aim is to maximise opportunities for all.

Our programmes

Research opportunities PhD p46
Architecture MArch p47
Construction Management MSc p47
Construction Project Management MSc p48
Construction Project Management with Building Information Modelling MSc p48
Infrastructure Design and Management MSc p49
Intelligent Transport Systems MSc p49
Low Energy Building Services Engineering MSc p50
Sustainable Design and Construction MSc p50
Water Management for Development MSc p51
Water Engineering for Development MSc p51
Research opportunities

PhD: 3 years full-time; 4 years part-time
Entry requirements: A 2:1 honours degree or equivalent international qualification in a related discipline.

Fees: UK: see website International: £24,100

Our doctoral researchers are based in the Research Hub, a vibrant hot desking facility that encourages collaborative research. An active Hub Committee organises training and social events for all research students. Some will also benefit from access to our excellent facilities, including our 3,000m² of laboratory and high performance computing facility.

All doctoral researchers benefit from the support of two supervisors with expertise in the selected research area. The Director of Doctoral Programmes provides additional guidance and pastoral support. You will also be provided with a laptop, technician support, access to funds for travel and conference attendance. You will attend training courses to support your research and professional and personal development, with opportunities to support undergraduate teaching through employment as a tutor/laboratory assistant.

Centres for Doctoral Training

Architecture - LU-ARC welcomes research proposals on a wide breadth of architectural topics, especially around our strengths of building structures and materials, digital fabrication, adaptable architecture, history and theory, and urbanism and heritage. We also invite practitioners to join our exciting research agendas to join our new practice-based PhD programme.

Building Energy
This research group focuses on measurement and modelling to produce healthy, high-quality indoor environments with lower energy demand and CO₂ emissions. The group work falls into three main sub themes: Building Components, High-Performance Building Engineering and Policy Development.

Construction Management
One of the UK’s longest established research groups specialising in delivering innovative solutions that enhance the construction, operation and maintenance of complex buildings and infrastructure. This research includes the performance and well-being of people, building sustainability and building information modelling. Its sub-themes are Digitisation, Whole Life Value and Asset Management, and Procurement and Project Delivery.

Geotechnics and Geomatics
Research in this area develops novel engineering solutions for sustainable and resilient infrastructure, and incorporates topics such as slope stability and the impact of climate change. Particular areas of interest include geotechnical infrastructure asset management and the impact of geohazards on the built environment.

Structures and Materials
Research in this area covers practical and theoretical approaches in the areas of Resilient Infrastructure and Cities, Sustainability and Advancement of Digital Technologies. This includes greener concretes, more efficient structural design solutions, digital manufacturing, intelligent automation and methods for determining the performance of engineering structures against blasts, earthquakes, fire and wind.

Transport and Urban Planning
This group conducts fundamental, innovative and policy-relevant research in the areas of Air Transport, Autonomous and Intelligent Transport, Passenger Transport, and Smart and Sustainable Cities.

Water Engineering
Research in this area covers Hydrodynamics, Hydrology, Disaster and Risk Management, Water Treatment and the Development of Sustainable and Resilient Water Infrastructure, including Management and Policy.

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Our areas of research

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Water Engineering
Research in this area covers Hydrodynamics, Hydrology, Disaster and Risk Management, Water Treatment and the Development of Sustainable and Resilient Water Infrastructure, including Management and Policy.

Taught programmes

Architecture

MArch including Part 2 exemption from RIBA qualification

Full-time length: 2 years
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in RIBA Part I and a portfolio submission and interview.

Fees: Please see website for details.

Programme overview

The MArch Architecture programme brings together the knowledge and skills learnt in our highly esteemed BArch course with the very latest thinking and technologies in architecture and urban planning to encourage students to be ambitious and innovative towards our global future.

The new programme has been designed to meet the requirements of a Part 2 qualification in Architecture, in line with the Architects Registration Board (ARB) and the Royal Institute of British Architects (RIBA)’s accreditation processes, which will be completed at the time of the first graduating cohort, allowing graduates to be exempt from the Part 2 exam.

The newly-refurbished studio and over 3,000 square metres of workshop space offer students an experimental lab to test speculative lines of enquiry as part the design process. Each student has an allocated workspace which allows cross-fertilisation of ideas for the formation of a lively, tight-knit creative culture.

Modules

Year 1 (work-based learning year) modules may include: Design in Practice, Reflective Practice, Contemporary Cities and Alternative Practice.
Year 2 (based in Loughborough) modules may include: Research-Led Design, Global Futures(s), Climate and Architecture, and a research project.

How you will be assessed
You will be assessed by a combination of essays, reports, individual and group presentations and installations, project-based portfolios, and a dissertation on an agreed topic.

How you will study
You will study through a range of work-based learning, lectures, workshops, seminars and site visits.

Career prospects

As a new programme, employment opportunities will build off the well-established relationships of the Architecture BArch course with companies such as Aukett Swanke, UK; Gensler, UK; and Holmes Miller, China.

Construction Management

MSc

Full-time length: 1 year
Part-time length: 2-5 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in a subject related to the built environment and/or full membership of a relevant professional institution.

Fees: UK: £11,400 International: £25,450

Programme overview

Our Construction Management MSc enjoys a great heritage, being the longest established in the UK and the second oldest in the world. Choosing Loughborough as your destination will enable you to draw on the wealth of experience and expertise acquired throughout the School’s long history.

As construction projects become more socially and technologically complex in a changing world dominated by a concern for sustainability and social value, there has been a growing challenge to develop existing and new expertise in construction management. This programme is designed to develop your knowledge and skills and advance your career within the construction industry.

The programme is accredited by the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB) and the Joint Board of Moderators (Institution of Structural Engineers, Institution of Civil Engineers, Chartered Institution of Highways and Transportation, Institute of Highway Engineer).

Modules

Compulsory modules may include: Principles and Application of Building Information Modelling (BIM); Research Methods; Principles of Design and Construction; Principles of Project Management; and a research project.

Optional modules may include: Design Management; Sustainability in the Built Environment; Management of Construction Processes; Federated 3D BIM; Strategic Management in Construction; People and Teams; and Procurement and Contract Procedure.

How you will be assessed
You will be assessed by a combination of examination, coursework and presentations, as well as a dissertation on an agreed topic.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects

The employment record of the programme is exemplary, with graduates securing employment in the UK and overseas. Recent graduates currently hold the following positions: Senior Estimator, Bouygues UK; Digital Engineer, Laing O’Rourke; Senior Consultant, Asite.

Department of Civil Engineering and Built Environment

London South Bank University

Schools and Departments

Architectural, Building and Civil Engineering
Construction Project Management

MSc

Full-time length: 1 year
Part-time length: 2-5 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant subject and/or full membership of a relevant professional institution.

Fees: UK: £11,400 International: £25,450

Programme overview

The Construction Project Management MSc spans the technical and managerial sides of the discipline, while providing a holistic perspective of construction project processes and the challenges of project management in complex building and infrastructure projects. Competency in project management has become a crucial skill set, with many construction project managers functioning in a strategic and coordinating role in the delivery of the client's physical development and investment programme.

This programme is accredited by the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB) and the Joint Board of Moderators (Institution of Structural Engineers, Institution of Civil Engineers, Chartered Institution of Highways and Transportation, Institute of Highway Engineers).

Modules

Compulsory modules may include Principles and Application of Business Information Modelling (BIM); Research Methods; Principles of Design and Construction; Principles of Project Management; Design Management; Sustainability and the Built Environment; Management of Construction Processes; and a research project. Optional modules may include: Strategic Management in Construction; People and Teams; Procurement and Contract Procedure; and Federated 3D BIM.

How you will be assessed

You will be assessed by a combination of examination, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, workshops, group work, independent study and practical sessions.

Career prospects

The employment record of the programme is exemplary, with graduates securing employment in the UK and overseas. Recent graduates currently hold the following positions: Graduate Civil Engineer, J. Murphy & Sons Ltd; Sub Agent, Barr Hale Ltd; Design Manager, Laing O’Rourke; Project Planner, Skanska UK; Planning Manager, Mace; Site Manager, Balfour Beatty Construction Services UK.

Infrastructure Design and Management

MSc

Full-time length: 1 year
Part-time length: 2-5 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in mathematics, engineering or computer science and/or full membership of a relevant professional institution.

Fees: Please see website for details.

Programme overview

The Infrastructure Design and Management MSc has been designed to promote multidisciplinary knowledge and skills to coordinate, plan, manage and monitor design, delivery and operation of civil infrastructure projects. It will provide you with advanced knowledge and skills on new technologies to optimise the design and management of infrastructure projects.

This is a booming sector with exciting opportunities and a significant deficit of qualified professionals.

Modules

Compulsory modules may include: Infrastructure Systems; Research Methods; Advanced Design; Principles of Project Management; Advanced Methods for Infrastructure Inspection and Maintenance and Real-Case Project Development.

Optional modules may include: Sustainability in the Built Environment; Design Management; Federated Building Information Modelling and Disaster Risk Management.

How you will be assessed

You will be assessed by a combination of exams, coursework, presentations and assignments.

How you will study

You will study through a range of seminars, lectures and independent study.

Career prospects

This is a rapidly evolving sector with excellent opportunities for well-qualified graduates familiar with the latest methods and technologies. As this is a new programme, graduate destinations are not yet available.

This degree is suitable for those interested in developing contemporary infrastructure design and project management skills needed to meet the growing demands placed on professionals in the sector to integrate expertise and knowledge within their professional practice. Our graduates may go on to work for major asset operators or consultancies, in charge of design and maintenance.

Intelligent Transport Systems

MSc

Full-time length: 1 year
Part-time length: 2-5 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in mathematics, engineering or computer science and/or full membership of a relevant professional institution.

Fees: Please see website for details.

Programme overview

The Intelligent Transport Systems MSc provides you with a comprehensive understanding of how transport systems, smart futures, data analytics and research are combined to reshape infrastructure and transport vehicles. The world is currently being radically altered by autonomous, connected and intelligent systems that are able to learn, adapt, take decisions and act independently of humans. Climate change, increasing incomes, urbanisation, poor air quality, a large number of traffic fatalities in our cities and an ageing population are all affecting the world we live in, providing the context that the transport system operates in.

You will be provided with the tools and methods to effectively and efficiently collect, analyse, represent and apply this new abundance of data to the transport system, to take account of even the smallest changes to society and to make it truly intelligent, connected and autonomous.

This new programme is seeking accreditation by the Chartered Institute of Logistics and Transport to ensure it offers professional registration opportunities for all graduates.

Modules

Compulsory modules may include: Research Methods; Fundamentals of Intelligent Transport Systems; Transport Engineering and Modelling; Forecasting, AI and Big Data; Simulation and Visualisation; Connected and Autonomous Transport, Future Mobility Systems; and Smart Cities and Urban Mobility.

How you will be assessed

You will be assessed by a combination of examination, coursework and class presentations, as well as a research dissertation on an agreed topic.

How you will study

You will study through a range of lectures, workshops, seminars, practical sessions, tutorials, group work and independent study.

Career prospects

This programme offers professional registration opportunities for major asset operators or consultancies, in charge of design and maintenance.
Low Energy Building Services Engineering
MSc
Full-time length: 1 year
Part-time length: 2-5 years
Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant subject.
Fees: UK: £11,400 International: £25,450

Programme overview
The Low Energy Building Services Engineering MSc provides a comprehensive understanding of the principles and applications of low energy building, digital twins, heating, ventilation, and air conditioning (HVAC) and building services design. This enables graduates to contribute to the future of low energy solutions and artificial intelligence in the built environment.

Students work with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) guidelines and also participate in the ASHRAE Integrated Sustainable Building Design competition. The programme will also provide you with additional qualifications such as the Building Research Energy Environmental Assessment Methodology (BREEAM) and HVAC CPD certificates.

The programme is accredited by the Chartered Institution of Building Services Engineers (CIBSE) and the Energy Institute (EI), for professional registration as a UK Chartered Engineer (CEng).

Modules
Compulsory modules may include: Digital Buildings in a Global Design Context; Research Methods; Principles of Design and Construction; Sustainable Design and Construction Theories, Principles and Assessment Tools; Low Energy Building Design; Integrated Sustainable Design and Construction Project; Management of Construction Processes and Techniques; and a research dissertation.

Optional modules may include: Control and Commissioning for Low Energy Buildings; Design Management; and Federated Building Information Modelling.

How you will be assessed
You will be assessed by a combination of presentations, coursework, exams and a dissertation on an agreed topic.

How you will study
You will study through a range of lectures, seminars, tutorials, group work, independent study, workshops and practical sessions.

Career prospects
Our graduates have gone on to work as graduate and senior engineers for leading engineering companies including: AECOM; Arup; Atkins; BAM Nuttall Ltd; Balfour Beauty; Kier Group; Morgan Sindall; Skanska; Transport for London.

Some of these companies offer work placements for students to undertake their research dissertations.

Sustainable Design and Construction
MSc
Full-time length: 1 year
Part-time length: Not available
Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant subject.
Fees: UK: £11,400 International: £25,450

Programme overview
The Sustainable Design and Construction MSc is uniquely dedicated to developing construction managers’ knowledge and expertise in sustainable practices.

The programme integrates contemporary construction management theory and practice with fundamental and interrelated sustainable design and construction. You will benefit from hands-on experience and knowledge to deepen your expertise for application within the public or private sector. You will also have the additional opportunity to gain the Building Research Energy Environmental Assessment Methodology (BREEAM) qualification.

Modules
Compulsory modules may include: Digital Buildings in a Global Design Context; Research Methods; Principles of Design and Construction; Sustainable Design and Construction Theories, Principles and Assessment Tools; Low Energy Building Design; Integrated Sustainable Design and Construction Project; Management of Construction Processes and Techniques; and a research dissertation.

Optional modules may include: Control and Commissioning for Low Energy Buildings; Design Management; and Federated Building Information Modelling.

How you will be assessed
You will be assessed by a combination of presentations, coursework, exams and a dissertation on an agreed topic.

How you will study
You will study through a range of lectures, seminars, tutorials, group work, independent study, workshops and practical sessions.

Career prospects
Students to undertake their research dissertations.

Water Management for Development
MSc
Full-time length: 1 year (distance learning available)
Part-time length: 3-5 years (distance learning only)
Entry requirements: A 2:2 honours degree or equivalent international qualification.
Fees: FT UK: £11,400 International: £25,450
PT UK: £9,700 International: £19,950

Programme overview
The Water Management for Development MSc is designed to develop your career managing water and environmental sanitation services for low and middle income countries. You will be provided with the multidisciplinary knowledge and skills to plan, manage and monitor water and environmental sanitation services.

Managed by our Water Engineering and Development Centre (WEDC), our programmes are well-established and held in high regard by practitioners and employers from international development and emergency and national water sector organisations.

This programme is accredited by the Chartered Institution of Water and Environmental Management (CIWEM) and the Joint Board of Moderators (JBM).

Modules
Compulsory modules may include: Water and the Natural Environment; Management of Village Water Services; Research Methods, Management and Operation of Water Utilities; Management of Water and Environmental Sanitation Services; Household and Communal Sanitation Management; Urban Sanitation Management; and a research dissertation.

Optional modules may include: Disaster Risk Management; and Humanitarian Water, Sanitation and Hygiene Promotion.

How you will be assessed
You will be assessed by a variety of coursework assignments and a dissertation on an agreed topic.

How you will study
You will study through a range of lectures, seminars and independent study.

Career prospects
Graduates have gone on to work for international Non-Governmental Organisations, such as Médecins Sans Frontières (Doctors Without Borders), Oxfam, Save the Children, GOAL and WaterAid, at agencies such as UNICEF or within national governments and consultancies.

Roles include Sanitation Technical Manager, Water and Sanitation Consultant, Environmental Engineering Consultant and Civil Engineering Specialist.

Water Engineering for Development
MSc
Full-time length: 1 year
Part-time length: 3-5 years (distance learning only)
Entry requirements: A 2:1 honours degree or equivalent international qualification in engineering, science or mathematics. Other qualifications supplemented with relevant industrial experience will be considered.
Fees: FT UK: £11,400 International: £25,450
PT UK: £9,700 International: £19,950

Programme overview
The Water Engineering for Development MSc is designed to establish and develop your career in water and sanitation engineering for low and middle income countries. You will be provided with multidisciplinary knowledge and skills to address the changing needs of the market.

Managed by our Water Engineering and Development Centre (WEDC), our programmes are well-established and held in high regard by practitioners and employers from the national water sector and international development agencies.

This programme is accredited by the Chartered Institution of Water and Environmental Management (CIWEM) and the Joint Board of Moderators (JBM).

Modules
Compulsory modules may include: Water and the Natural Environment; Urban and Rural Water Supply Engineering, Flood Modelling and Management; Research Methods; Management of Water and Environmental Sanitation Infrastructure; Urban and Rural Sanitation Engineering, Groundwater Modelling and Management; and a research dissertation.

Optional modules may include: Advanced Wastewater Engineering; Groundwater Modelling and Management; and an international qualification. Relevant industrial experience will be considered.

A 2:1 honours degree or equivalent international qualification in engineering, science or mathematics. Other qualifications supplemented with relevant industrial experience will be considered.

Part-time length: Not available
Full-time length: 3-5 years (distance learning only)
Entry requirements: A 2:2 honours degree or equivalent international qualification.
Fees: FT UK: £9,700 International: £25,450
PT UK: £7,900 International: £19,950

Programme overview
The Water Management for Development MSc is designed to develop your career managing water and environmental sanitation services for low and middle income countries. You will be provided with the multidisciplinary knowledge and skills to plan, manage and monitor water and environmental sanitation services.

Managed by our Water Engineering and Development Centre (WEDC), our programmes are well-established and held in high regard by practitioners and employers from international development and emergency and national water sector organisations.

This programme is accredited by the Chartered Institution of Water and Environmental Management (CIWEM) and the Joint Board of Moderators (JBM).

Programme overview
The Low Energy Building Services Engineering MSc is designed to establish and develop your career managing water and environmental services for low and middle income countries. You will be provided with multidisciplinary knowledge and skills to address the changing needs of the market.

Managed by our Water Engineering and Development Centre (WEDC), our programmes are well-established and held in high regard by practitioners and employers from the national water sector and international development agencies.

This programme is accredited by the Chartered Institution of Water and Environmental Management (CIWEM) and the Joint Board of Moderators (JBM).
The School of Business and Economics is committed to developing well-rounded, highly sought-after graduates, equipped to succeed in today's global economy.

**Triple-accredited**
Consistently ranked as a top 10 UK business school by national league tables, the School is also among a small number of business schools in the world to hold AACSB, EQUIS and AMBA accreditation. These rankings and accreditations internationally validate the quality of education offered, from teaching and research to student support and facilities. We also hold the UK’s Chartered Association of Business Schools’ ‘Small Business Charter’ for our work in enterprise.

**Outstanding research culture**
Integral to the School’s philosophy is developing research of the highest level that both informs academia and is instrumental in helping shape and influence the wider world. According to the latest Research Excellence Framework (REF), 75% of our business and management research output is considered ‘world-leading’ or ‘internationally excellent’. Our inspiring and supportive academic community enables students and staff to explore the latest challenges confronting businesses and governments today.

**Expert teaching**
Our experiences of working with over 2,000 global corporate partners ensure our programmes are underpinned by the latest best practice and research. Many programmes also offer practical projects, guest lectures and workshops from industry partners, and extracurricular corporate masterclasses. Our students also benefit from being taught by expert academic staff, many of whom have first-hand experience in business, finance, management and government policy.
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A master’s qualification in a relevant subject with an average programme mark of 65% or above or international equivalent and a good honours degree in a relevant discipline (minimum 2:1). In exceptional cases, substantial professional work experience/qualifications may also be taken into consideration.

Fees: UK: see website International: £18,100

At the School of Business and Economics you have the opportunity to study towards a PhD or MPhil in Business and Management, Economics or Information Science. As a doctoral student you will join whichever academic group best suits your research interests. Whether you are interested in microeconomics or corporate social responsibility, or want to research international marketing strategies, the School of Business and Economics is well-placed to provide the right opportunities for you, in order to realise your ambitions.

Our areas of research

Academic Groups are the fundamental areas of teaching and research in which individual staff members are grouped, Research Centres represent the key areas or our research strength, and Research Interest Groups are emerging areas of research.

Academic Groups

Research staff and students are all placed within one of the School’s seven Academic Groups.

Accounting and Finance

This group’s research interests span a broad spectrum of methodologies ranging from social science-orientated techniques to applied financial economics. The key objective of group members is to produce research that is rigorous but also relevant to contemporary accounting and finance issues/debates. The group’s areas of expertise are: corporate finance, financial markets, management accounting and corporate governance and sustainability. Many group members possess professional as well as academic qualifications.

A number of group members serve/have served on prestigious academic and practitioner boards, as well as holding editorial positions in key academic journals in their respective fields.

Economics

The Economics academic group undertakes rigorous and relevant applied research in microeconomics, macroeconomics and econometrics, with a view to applying the powerful and flexible tools of economics to both understand and inform the economic decisions of individuals, firms, governments and other institutions.

The group’s research interests and expertise span five key areas: applied econometrics and productivity analysis; financial economics and banking; monetary economics and development; international economics and trade; and industrial economics.

Work and Organisation

This interdisciplinary social science teaching and research group brings together academics interested in a broad range of ‘people management’ issues. Psychology and sociology are major disciplinary influences but historical and geographical approaches may also be taken. The group conducts research in the areas of organisation studies, work psychology and employment relations. Output ranges from traditional academic scholarship to work with a significant impact on public policy and management.

Information Management

The research carried out by this group is led by the Centre for Information Management. The Centre undertakes world-leading research on the effective management of information and knowledge assets, investigating big data, mobile technologies, email, social networks and social media, open and linked data, knowledge management in the voluntary sector and much more.

International Business, Strategy and Innovation

This group comprises teachers and researchers whose work draws on multiple disciplines including economics, sociology, psychology, anthropology and political science.

The group is committed to the advancement of world class management scholarship and to the development of ideas that will help managers make better sense of some of the most complex problems of globalisation and the technology revolution.

Management Science and Operations

This group is multidisciplinary, bringing together expertise in operations, systems and decision making.

The group is committed to improving management practice by designing and implementing analytic approaches that help tackle routine, strategic or policy problems. The approaches are typically supported by models that can often be represented mathematically or visually and built using specialist software.

Marketing and Retailing

This group is extremely successful in advancing knowledge in marketing and retailing through high quality academic and applied research with an international perspective.

Key areas of expertise include: export marketing and performance measurement, international marketing strategy and competitive positioning, retailing and sales management, marketing ethics, product and service innovation and adoption, cross-cultural perceptions of product newness and consumer behaviour in international contexts.

Research Centres

The School has developed collaborative Research Centres to further enhance its international reputation. These Centres are key components of the School’s research agenda and aim to be instrumental in shaping policy and practice across both the public and private sector.

Centre for Information Management

The Centre’s main purpose is to undertake internationally recognised research for the benefit of the individual, organisations, government and society. It aims to evidence the significance and value of information, challenge thinking and practice around information management, and improve performance through analysis, interpretation and judgement of information.

Centre for Work, Organisation and Society

The Centre aims to contribute to leading national and international debates on work, employment and organisations in society. Researchers draw on multidisciplinary perspectives that enable inquiry into psychological, cultural, technological, geographic, political economy and social dimensions of people at work and the organisation of production.

Centre for Service Management

The Centre engages in applied research and scholarship to support the design, engagement and transformation of service organisations, conducting research that matters to organisations across the sectors. It provides new knowledge to inform academics and educate managers through the exploration of theory and practice and serves to develop collaborative partnerships in the area of service management.

Centre for Productivity and Performance

This Centre focuses on research in different fields of productivity, efficiency and performance measurement, and related areas, such as industrial organisation and decision and risk analysis. Its research portfolio aims to assist decision and policy makers in evaluating and improving the performance of firms and public sector bodies.

Centre for Corporate Entrepreneurship and Innovation

This is a joint research centre between the School of Business and Economics and the Institute for Innovation and Entrepreneurship at Loughborough University London. Through research, engagement and international partnerships, the Centre provides research and practice-based insights on how executives build, manage and sustain the innovative organisation now and into the future.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) integrate PhD research and an enhanced research training package into a four-year integrated programme. The School of Business and Economics is part of the new EPSRC Centre for Sustainable Hydrogen (SusHy) in partnership with Nottingham, Birmingham and Ulster.

Doctoral Training Partnership (DTP)

The School of Business and Economics is proud to be part of the ESRC Midlands Graduate School DTP in partnership with Warwick, Nottingham, Birmingham, Aston and Leicester.

Research Interest Groups

Research Interest Groups are individual clusters of faculty, researchers and PhD students working on a common research theme. These groups evolve over time and represent emerging areas of research strength within the School:

• Behavioural Decision Sciences
• Knowledge and the Digital Economy
• Logistics and Transportation Analytics
• Money and Developing Economies
• Simulation Practice
• Town Centres
• Trade Agreements, Negotiation Strategy, Investment and Technology (TRANSIT)
• Health and Wellbeing
• ICTs, Inclusion and Development
• Wine Business
**Taught programmes**

**The Loughborough Full-Time MBA**

**MBA**
- **Full-time length:** 1 year or 2 years with internship
- **Part-time length:** Not available
- **Entry requirements:** Minimum of three years’ management/professional experience plus a 2:2 honours degree or equivalent international qualification or membership of an approved Chartered Institute or a Diploma in Management Studies. Please see website for full details.
- **Fees:** UK: £28,800 International: £28,800

**Programme overview**
Our Full-Time MBA equips you with the skills to take your career to the next level. We guide you through a transformational experience that enables you to fulfil your potential.
You will learn how to manage complex organisational issues, devise creative solutions to real business challenges, get the most out of a team and how to lead and manage innovative change in demanding, global markets.

**Modules**
- Compulsory modules may include: Business Economics; Accounting and Performance Management; Managing People; Business Analytics; Strategic Marketing; Decision Making for Leaders; Managing Organisations; Managing Innovation; Operations Management; Leading Strategic Change; Business Administration Project and Research Methods or Work-Based Learning Project and Research Methods; and Professional Development Sessions.
- Optional modules may include: Corporate Finance; Global Outsourcing and Offshoring of Services; Information Systems: Strategy and Management; Managing Corporate Reputation; Managing the Global Firm; Project Management; Managing Sports Organisations, European Summer School in Advanced Management (ESSAM); and International Intensive Study Period (additional fees may apply for this module and for ESSAM).

Those doing a 45-52 week Professional Internship in Year 2 will continue the Work-Based Learning Project and Research Methods from Year 1.

**How you will be assessed**
You will be assessed by a combination of exams and coursework, both group and individual.

**How you will study**
You will study through face-to-face teaching, seminars, tutorials, independent study, group work, field trips and workshops.

**Career prospects**
This internationally-recognised transformational MBA is ideal for professionals with managerial or leadership ambitions.

**The Loughborough Executive MBA**

**MBA**
- **Full-time length:** Not available
- **Part-time length:** Up to 4 years (typically 3 years)
- **Entry requirements:** Minimum of five years’ management/professional experience plus a 2:2 honours degree or equivalent international qualification or membership of an approved Chartered Institute or a Diploma in Management Studies. Please see website for full details.
- **Fees:** UK: £28,800 International: £28,800

**Programme overview**
Our Executive MBA equips experienced professionals with the skills to take their career to the next level. We guide you through a transformational experience that enables you to fulfil your potential.
You will learn how to manage complex organisational issues, devise creative solutions to real business challenges, get the most out of a team, and how to lead and manage innovative change in demanding, global markets. You will learn alongside experienced high achievers from a range of sectors and share some modules with our internationally diverse Full-Time MBA students. Specialist pathways exist for those looking to tailor their MBA studies, including a Sports Management pathway for those working in sports organisations, NGOs and sports businesses.

**Modules**
- Compulsory modules may include: Personal Effectiveness; Accounting, Financial Management and Economics; Managing People; Strategic Marketing; Business Analytics; Decision Making for Leaders; Managing Innovation; Operations Management; Leading Strategic Change; Business Administration Project and Research Methods, or Work-Based Learning Project and Research Methods; and Professional Development Sessions.
- Optional modules may include: Corporate Finance; Global Outsourcing and Offshoring of Services; Information Systems: Strategy and Management; Managing Corporate Reputation; Managing the Global Firm; Project Management; Managing Sports Organisations, European Summer School in Advanced Management (ESSAM); and International Intensive Study Period (additional fees may apply for this module and for ESSAM).

Those doing a 45-52 week Professional Internship in Year 2 will continue the Work-Based Learning Project and Research Methods from Year 1.

**How you will be assessed**
You will be assessed by a combination of exams and coursework, both group and individual.

**How you will study**
You will study through face-to-face teaching, seminars, tutorials, independent study, group work, field trips and workshops.

**Career prospects**
This transformational MBA is ideal for working professionals with higher managerial or leadership ambitions.

**Banking and Finance**

**MSc**
- **Full-time length:** 1 year
- **Part-time length:** Not available
- **Entry requirements:** A 2:1 honours degree or equivalent international qualification in economics, finance, business, management, management science or operations research. Applicants from related disciplines may also be considered provided that your degree includes at least introductory modules in economics and an introduction to quantitative subjects such as calculus and statistics. Please see website for full details.
- **Fees:** UK: £14,500 International: £24,650

**Programme overview**
Our Banking and Finance MSc will equip you with the practical skills to understand and model banking and financial markets, using the toolkit of economics. The programme will enable you to understand how the actions of governments, firms, households and financial intermediaries affect national and global financial assets such as bond, equities and foreign exchange markets. In addition, you will be exposed to the theory and practice of bank credit and lending, as well as financial institution risk management.

**Modules**
- Compulsory modules studied may include: Financial Economics; The Financial System, Introduction to Data Analysis; Research Communication for Economists; Applied Financial Econometrics; Banking and Financial Markets; Banking and Finance in Practice; and an economic research project. Optional research project modules may include: Economics of Firms and Markets; Macroeconomic Policy and Financial Markets; Risk Management and Derivatives; Corporate Finance; and International Money and Finance.

**How you will be assessed**
You will be assessed by a combination of group and individual coursework, as well as exams.

**How you will study**
You will study through a range of lectures, seminars, group work, feedback forums, one-to-one sessions with programme tutors and workshops.

**Career prospects**
Our Banking and Finance MSc programme is ideal for those who wish to pursue a career in banking, financial services, international financial management or central banking and financial regulation.

**Business Analytics**

**MSc**
- **Full-time length:** 1 year
- **Part-time length:** Not available
- **Entry requirements:** A 2:1 honours degree or equivalent international qualification. Strong quantitative ability is required. Degrees in engineering, mathematics, physics, economics, and business and management are particularly welcomed. Those without a first degree but with substantial work experience may be considered. Please see website for full details.
- **Fees:** UK: £14,500 International: £24,650

**Programme overview**
Our Business Analytics MSc equips you with the rigorous modelling and consulting skills needed to understand, manage and communicate useful insights from big data. The programme will enable you to consult with organisations and governments to help them make informed strategic business or policy decisions. You will be taught by internationally recognised management scientists who work with government, business and non-profit organisations.

Our industrial collaborators (including TUI, npower, BT, IBM, SAS, British Airways, and UK Government departments) help ensure our modules are both practically relevant and academically robust, delivering workshops and guest talks.

The supervised consulting or research project gives you the opportunity to apply powerful tools such as data mining, forecasting, optimisation, simulation and decision analysis to a particular area of business or policy.

**Modules**
- Modules studied may include: Skills for Consulting Projects; Discovery Analytics; Managerial Decision Modelling; Managing Big Data; Customer Analytics; Systems and Operations Analytics; Policy and Strategy Analytics; Process and Programming for Analytics; and an Analytics Project.

**How you will be assessed**
You will be assessed by coursework and/or exams.

**How you will study**
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

**Career prospects**
Typical graduate destinations include careers as management consultants, business analysts, policy analysts, marketing researchers, operations researchers and data scientists.
Business Psychology

MSc

Full-time length: 1 year
Part-time length: 2-4 years

Entry requirements: A 2.1 honours degree or equivalent international qualification with a substantial business, management or cognate social science component, and evidence of numerical proficiency demonstrated through the study of mathematical or statistical subjects. Applicants with a 2:2 or from a different discipline may be considered with relevant work experience. See website for full details.

Fees*: UK: £11,400 International: £25,450

Programme overview
Our Business Psychology MSc programme is accredited by the Association for Business Psychology. Taught by experienced researchers and practitioners, you will learn in-depth how to apply the science of psychology to important business issues, including change management, employee selection and development, leadership, work motivation, well-being and performance.

You will develop skills in critical thinking, consultancy and working with organisational stakeholders, enabling you to operate effectively at all levels within organisations. You can complete a research project that allows you to apply this knowledge to an organisational issue or instead conduct a focused literature review that examines how psychological research and theory may be applied to a contemporary business problem.

Modules
Modules studied may include: Gathering and Using Evidence in Work Psychology; Leadership and Performance Management; Employee Engagement, Motivation and Voice; Wellbeing and Work; Work Design; Organisation Change and Development; Psychological Assessment in Organisations; Career Development; Learning, Development and Knowledge Management; and an Empirical Research Project in Work Psychology or a Dissertation in Business Psychology.

How you will be assessed
You will be assessed through group and individual coursework.

How you will study
You will study through a range of online learning, seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our Corporate Finance MSc is ideal for graduates seeking a career in the treasury department of a large company, the corporate finance team of an investment bank, a management consultancy role with a finance focus or an advisory role with an accounting or professional services company.

Corporate Finance

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2.1 honours degree or equivalent international qualification in business, accounting, maths, physics, engineering, computing, economics or a minor in finance. Please see website for full details.

Fees: UK: £14,500 International: £24,650

Programme overview
Our Corporate Finance MSc is an applied master’s programme that will enable you to work in corporate finance roles, giving you the tools to evaluate corporate finance issues and to improve financial management practice.

You will be taught by internationally renowned academics who are experts in research and hold advisory roles on government policy and in industry. Research strengths include corporate finance, accounting, financial markets and corporate governance. The programme shares a common first semester with MSc Finance and MSc Fintech Thematics, before specialising in Corporate Finance in semesters two and three.

The programme is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA’s professional examinations.

Modules
Compulsory modules may include: Principles of Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods of Financial Data Analysis; Corporate Finance; International Financial Management; Financial Statement and Business Valuation; Business Communication for Finance; Corporate Governance and Responsibility; Advanced Corporate Finance; and Corporate Financial Analysis.

Optional modules may include: Global Financial Markets and the Financial Crisis; Business Economics; Portfolio Management; and Small Business and Entrepreneurship.

How you will be assessed
You will be assessed by coursework and/or exams.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our MSc Economics and Finance is ideal for graduates interested in careers in banking, finance, government, international organisations, business, management consultancy and economic consultancy.

Economics and Finance

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2.1 honours degree or equivalent international qualification in economics, finance, business, management, management science, operations research or related subjects. Applicants from other disciplines will also be considered provided that your degree includes at least introductory modules in economics and an introduction to quantitative subjects such as calculus and statistics. Please see website for full details.

Fees: UK: £14,500 International: £23,850

Programme overview
Our Economics and Finance MSc will provide you with the capability to apply modern macroeconomic, microeconomic and econometric methods in order to assess and shape organisational, government and financial policy.

You will develop the key skills of a professional economist for careers in banking, government (central banking and treasury), international business, consultancy and academia.

You will study economic theory and policy, the actions of governments, firms, households and intermediaries in national and international money, bond and foreign exchange markets.

You will examine both the microeconomic impacts for firms and the macroeconomic implications for the global economy and will develop advanced theoretical and quantitative skills, as well as valuable transferable skills.

Modules
Core modules may include: Financial Economics; Economics of Firms and Markets; Macroeconomic Policy and Financial Markets; Introduction to Data Analysis; Applied Financial Econometrics; Risk Management and Derivatives; Corporate Finance; Financial Economics in Practice; and an economics research project.

Optional modules may include: Banking and Financial Markets; and International Money and Finance.

How you will be assessed
You will be assessed by coursework and exams.

How you will study
You will study through seminars, lectures, group work, feedback forums, one-to-one sessions with programme tutors and workshops.

Career prospects
Our MSc Finance and Investment is designed to fast-track the careers of graduates from non-finance backgrounds with ambitions to work in investment management, investment banking and related sectors.

The programme will provide you with the practical tools to evaluate issues facing financial market participants and to improve the practice of investment and risk management. It focuses on both the trading and portfolio management sides of finance and has a substantial focus on investment within core modules. Our Trading Room, with Thomson Reuters Eikon financial trading software, enables you to practically apply concepts you have learned during the programme.

This master’s is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA’s professional examinations.

Modules
Compulsory modules may include: Principles of Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods for Financial Data Analysis; Corporate Finance; International Financial Management; Financial Statement and Business Valuation; Business Communication for Finance; Corporate Governance and Responsibility; Advanced Corporate Finance; and Corporate Financial Analysis.

Optional modules may include: Global Financial Markets and the Financial Crisis; Business Economics; Portfolio Management; and Small Business and Entrepreneurship.

How you will be assessed
You will be assessed by exams and coursework.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our MSc Finance and Investment is ideal for non-finance graduates who wish to work within investment management, investment banking and related careers. Graduates are highly sought after and work in a wide range of finance roles with many of the major global asset management and financial services companies.

Finance and Investment

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2.1 honours degree or equivalent international qualification in business, accounting, maths, physics, engineering, computing, economics or a minor in finance. 2:1 grades are required in quantitative modules. Please see website for more details.

Fees: UK: £14,500 International: £24,650

Programme overview
Our Finance and Investment MSc is designed to fast-track the careers of graduates from non-finance backgrounds with ambitions to work in investment management, investment banking and related sectors.

The programme will provide you with the practical tools to evaluate issues facing financial market participants and to improve the practice of investment and risk management. It focuses on both the trading and portfolio management sides of finance and has a substantial focus on investment within core modules. Our Trading Room, with Thomson Reuters Eikon financial trading software, enables you to practically apply concepts you have learned during the programme.

This master’s is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA’s professional examinations.

Modules
Compulsory modules may include: Principles of Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods for Financial Data Analysis; Corporate Finance; International Financial Management; Financial Statement and Business Valuation; Business Communication for Finance; Corporate Governance and Responsibility; Advanced Corporate Finance; and Corporate Financial Analysis.

Optional modules may include: Global Financial Markets and the Financial Crisis; Business Economics; Portfolio Management; and Small Business and Entrepreneurship.

How you will be assessed
You will be assessed by exams and coursework.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our MSc Finance and Investment is ideal for graduates seeking a career in the treasury department of a large company, the corporate finance team of an investment bank, a management consultancy role with a finance focus or an advisory role with an accounting or professional services company.

* subject to University Council approval
Finance and Management

MSc

Full-time length: 1 year  
Part-time length: Not available

Entry requirements: An honours degree (good 2:2 of 55% or above) or equivalent international qualification in a non-finance discipline. Additional requirements apply. Please see website for more details.

Fees: UK: £14,500   International: £24,650

Programme overview
Our Finance and Management MSc programme is designed to fast-track the careers of graduates from non-finance backgrounds who want to pursue a career in financial management for commercial and non-commercial organisations.

Taught by renowned research-active academics, you will develop an understanding of business and management by studying across a range of areas, including marketing, human resources, accounting, strategic management and, in particular, finance. Your financial knowledge and skills will be further developed within accounting and finance modules. The programme is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA's professional examinations.

Modules
Compulsory modules may include: Foundations of Corporate Finance; Marketing in the Organisation; Accounting and Performance Measurement; Human Resource Management; Personal Development for Study and Employability; Financial Theory and Corporate Policy; and International Financial Management.

Optional modules may include: Business Economics; Business Environment Analysis; Performance Appraisal and Stock Valuations; Small Business and Entrepreneurship; Business Forecasting; and Services and Retail Management.

In the summer semester you may complete modules in Current Issues in Finance and Global Strategic Management, plus one optional module from Financial Derivatives or Corporate Governance and Responsibility.

How you will be assessed
You will be assessed by coursework and exams.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Graduates of this programme include Financial Traders, Brokers, Bank Management Trainees, Chartered Accountants, and Analysts.

Finance

MSc

Full-time length: 1 year  
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in business, accounting, maths, physics, engineering, computing, economics or a minor in finance. 2:1 grades are required in quantitative modules. Please see website for more details.

Fees: UK: £14,500   International: £24,650

Programme overview
Our Finance MSc is an applied, broad-based programme that will equip you with the knowledge and skills to work in a wide range of finance roles. You will learn both how to evaluate financial issues and to improve the practice of finance. You will gain an understanding of corporate finance and investment topics, with the option to choose modules specialising in international finance.

Our Trading Room, with Thomson Reuters Eikon financial trading software, enables you to practically apply concepts you have learned during the programme. This master’s is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA’s professional examinations.

Modules
Compulsory modules may include: Principles of Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods for Financial Data Analysis; Corporate Finance; Portfolio Management; Business Communication for Finance; plus three from Advanced Corporate Finance; Corporate Financial Analysis; Financial Trading; Global Investment Analysis; Corporate Governance and Responsibility; and a financial market project.

Optional modules may include: International Financial Management; Financial Statements and Business Valuation; Derivatives and Risk Management; Global Financial Markets and the Financial Crisis; Business Economics; and Small Business and Entrepreneurship.

How you will be assessed
You will be assessed by coursework and exams.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our Finance MSc opens up a wide range of finance careers with possible graduate roles including Portfolio Analyst, Financial Management Trainee, Investment Banker, Treasury Analyst, Equity Researcher, Corporate Finance Associate and Financial Market Trader.

“Loughborough prepares you very well for life after studies. There are regular employer presentations on campus and you get to talk to employers about what the job market is like.”
Human Resource Management

**MSc**

**Full-time length:** 1 year

**Part-time length:** Not available

**Entry requirements:** A 2:1 honours degree or equivalent international qualification, ideally with a substantial business, management or cognate social science component. Applicants with a 2:2 or from a different discipline may be considered with relevant work experience. Please see website for more details.

**Fees:** UK: £14,500  International: £23,850

**Programme overview**

Our Human Resource Management MSc is ideal for those interested in developing a career in human resource management, personnel or allied fields of management.

Subject to appropriate option choices and professional membership, graduates will meet the knowledge requirements for Chartered Membership of the CIPD.

The programme is taught by academics with both a business, management and business technology.

The programme will enable you to develop key skills that employers value, including managing business relationships, IT systems, data science projects and information architecture to name a few. It is designed to develop you into a ‘hybrid’ manager who is able to bridge the gap between technical and managerial perspectives and who is equipped with the technical, professional and management knowledge and skills needed by employers.

Teaching is informed by the latest commercial best practice and academic research. You will benefit from being taught by information management experts and have guest lecturers from industry and not-for-profit organisations.

**Modules**

Subjects studied may include People Management and Development, Personal Effectiveness, Business Ethics, Employee Resourcing, Talent Management, Strategic Reward Management, and Research Methods.

**How you will be assessed**

You will be assessed by exams and individual and group coursework assignments, including presentations.

**Career prospects**

Our Human Resource Management MSc is ideal for graduates looking to study a CIPD-approved MSc to prepare them for a career in human resource management, personnel or allied fields of management.

Information Management and Business Technology

**MSc**

**Full-time length:** 1 year

**Part-time length:** 2-4 years

**Entry requirements:** An honours degree (good 2:2 of 55% or above) or equivalent international qualification, preferably in a business or information technology-related subject. Please see website for more details.

**Fees:** UK: £14,500  International: £23,850

**Programme overview**

Our Information Management and Business Technology MSc has been designed with partners from industry to produce graduates who understand the professional, managerial and technical dimensions of information management and business technology.

The programme will enable you to develop your skills that employers value, including managing business relationships, IT systems, data science projects and information architecture to name a few. It is designed to develop you into a ‘hybrid’ manager who is able to bridge the gap between technical and managerial perspectives and who is equipped with the technical, professional and management knowledge and skills needed by employers.

Teaching is informed by the latest commercial best practice and academic research. You will benefit from being taught by information management experts and have guest lecturers from industry and not-for-profit organisations.

**Modules**

Modules studied may include: Business Relationship Management; IT Services Management; Collaborative Working with Technology; Information Architecture; Knowledge Management Strategies; Data Science; Business Models and New Technologies; Leadership and Project Management; and a dissertation.

**How you will be assessed**

You will be assessed by group and individual coursework.

**How you will study**

You will study through lectures, seminars, group work, feedback forums, e-learning, one-to-one sessions with tutors and workshops.

**Career prospects**

Our Information Management and Business Technology MSc is ideal for graduates looking to study a CIPD-approved MSc to prepare them for a career in human resource management, personnel or allied fields of management.

International Business

**MSc**

**Full-time length:** 1 year

**Part-time length:** Not available

**Entry requirements:** An honours degree (good 2:2 or above) or equivalent international qualification. Please see website for more details.

**Fees:** UK: £14,500  International: £24,650

**Programme overview**

Our International Business MSc is designed to equip you to work effectively in a range of managerial roles across national contexts. It offers an exciting year studying both theoretical and practical challenges.

You will develop an understanding of cross-cultural differences, intercultural communication and leadership, internationally distributed collaborations, international human resource management, and international strategy. You will develop practical knowledge of the global business environment, international business negotiations, global sourcing models, international supply chains, global social entrepreneurship and digital innovations. You have the option to study abroad for a semester or participate in an international virtual team exercise.

**Modules**

Compulsory modules may include: International Business Environment; International and Cross-Cultural Management; Innovation and Entrepreneurship; Global Outsourcing and Offshoring of Services; Personal Development for Study and Employability; Global Strategic Management; and an international company project. You may then choose to either study abroad for a semester or complete compulsory modules in: Business Environment Analysis; International Business Negotiations; Personal Development for Study and Employability; plus two optional modules from: X-Culture Project; FinTech and Global Markets; Global Social Entrepreneurship and CSR; International Entrepreneurship and Post-Conflict Environments; Global Logistics and Supply Chain Management; Enterprise Resource Planning; and Digital Marketing and Social Media.

**How you will be assessed**

You will be assessed by coursework, presentations and exams.

**How you will study**

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and supervision.

**Career prospects**

Our International Business MSc opens up careers in business analysis, marketing, international business negotiations, international trading, management consultancy and international business operations.

Logistics and Supply Chain Management

**MSc**

**Full-time length:** 1 year

**Part-time length:** Not available

**Entry requirements:** An honours degree (2:1 or above) or equivalent international qualification. Strong quantitative background is required. Degrees in engineering, mathematics, physics, economics, and business and management will be particularly welcomed.

Those without a first degree but with substantial work experience may be considered. Please see website for more details.

**Fees:** UK: £14,500  International: £24,650

**Programme overview**

Successful organisations all around the world depend on effective logistics and supply chain management. This programme is ideal for graduates that want to pursue a wide range of rewarding and vitally important careers in this area. Taught by internationally recognised experts, this programme will equip you with an in-depth understanding of modern logistics and supply chain systems, as well as strong modelling and analytical skills highly sought after by employers. You will learn to create, manage and communicate useful insights from big data, and apply them to help make informed decisions in logistics and supply chain operations.

Highlights of the course include workshops and guest talks from industrial collaborators; practical sessions to develop hands-on experience of using industry standard software packages such as SAP and SAS; and a supervised consulting or research project to apply and practise the skills you have learned.

**Modules**

Compulsory modules may include: Logistics System Operations; Discovery Analytics; Managerial Decision Modelling; Skills for Consulting Projects; Supply Chain Management; Behavioural Operations Management; Logistics and Supply Chain Management Project. Optional modules may include: Enterprise Resource Planning; Customer Analytics; Logistics Modelling and Operations Analytics; Policy and Strategy Analytics; Process and Programming for Analytics.

**How you will be assessed**

You will be assessed by coursework and exams.

**How you will study**

You will study through lectures, seminars, tutorials, independent study, group work, practical sessions, supervision and workshops.

**Career prospects**

We anticipate that graduates from this programme will pursue successful and rewarding careers as logistics and supply chain managers, analysts, consultants, or become doctoral researchers.
Management

MSc

Full-time length: 1 year
Part-time length: Not available
Entry requirements: An honours degree (good 2:2 of 55% or above) or equivalent international qualification in a non-business discipline, although those with a business degree will be considered. Please see website for more details.

Fees: UK: £14,500  International: £24,650

Programme overview

Our Management MSc is designed to create the next generation of outstanding business managers and leaders. Successful modern organisations depend upon managers with a broad business acumen who can make effective and timely decisions and who are capable of handling and analysing large volumes of information. Taught by leading experts who bring the latest research developments into the classroom, this programme will equip you with highly sought-after business and management skills and knowledge. You will learn the fundamentals of managing people and organisations and the wide range of optional modules gives you the flexibility to tailor the programme to suit your individual career aspirations.

Modules

Compulsory modules may include: Human Resource Management; Accounting and Financial Management; Marketing in the Organisation; Operations Management; Personal Development for Study and Employability; Information Systems and Management; Management Analysis; and Global Strategic Management. Optional modules may include: Business Environment Analysis; International Management; Small Business and Entrepreneurship; Business Forecasting; Work Psychology; Enterprise Resource Planning; Global Logistics and Supply Chain Management; Brand Management; and Marketing Communications.

How you will be assessed

You will be assessed by coursework, presentations and exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects

Our Management MSc will prepare you for a wide range of careers, including management, consultancy, entrepreneurship or as a functional specialist.

Marketing

MSc

Full-time length: 1 year
Part-time length: Not available
Entry requirements: An honours degree (good 2:2 of 55% or above) or equivalent international qualification in a non-business discipline, although those with a business degree will be considered. Please see website for more details.

Fees: UK: £14,500  International: £24,650

Programme overview

Our Marketing MSc will equip you with the marketing knowledge and analytical skills required in commercial and non-commercial organisations. The programme will give you an understanding of effective strategic marketing management in a global marketplace, the techniques used in conducting and analysing market research, and the marketing mix in an international context. You will also benefit from a masterclass with a prominent marketing practitioner.

There is also the opportunity to study towards the Chartered Institute of Marketing’s Level 6 Diploma in Professional Marketing. This is optional and separate to the master’s degree. The programme involves an additional fee and is taught by our training partner TMLA, an Accredited Study Centre for the Chartered Institute of Marketing. Loughborough is part of the CIM Graduate Gateway, meaning students will be exempt from taking the exam and will only need to submit two written assignments by the end of the programme.

Modules

Compulsory modules may include: Human Resource Management; Market Research Methods; Marketing in the Organisation; Innovation and Entrepreneurship; Personal Development for Study and Employability; Digital Marketing and Social Media; Making Marketing Work; Strategic Marketing Solutions; and Global Strategic Management. Optional modules may include: International Marketing; Services and Retail Management; Global Logistics and Supply Chain Management; Business Environment Analysis; Brand Management; and Marketing Communications.

You will be assessed by coursework, presentations and exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects

Our Marketing MSc is ideal for those interested in careers in marketing and management. It also offers the opportunity to graduate with the Chartered Institute of Marketing’s (CIM) Diploma in Professional Marketing.

Social Science Research (Business and Management Studies)

MSc

Full-time length: 1 year
Part-time length: 2 years
Entry requirements: A 2:1 honours degree or equivalent international qualification in a wide range of subjects. Please see website for more details.

Fees: UK: £9,700  International: £19,950

Programme overview

Our Social Science Research (Business and Management Studies) MSc will provide you with a comprehensive overview of the key methodological and philosophical debates that shape the social sciences and equip you with the specialised research tools and skills for business and management.

This master’s has a strong emphasis on applying qualitative and quantitative skills to tackle research problems, as well as a focus on developing critical thinking skills. It provides a robust foundation for more advanced academic study or research, whilst sharpening the applied research skills of current or aspiring business and management practitioners.

The programme is accredited by the Economic and Social Research Council (ESRC).

Modules

Compulsory modules may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods; and a dissertation. You will also study optional modules in a range of advanced research methods.

You will be assessed

You will be assessed by a combination of exams, coursework and group work.

You will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects

Our Social Science Research (Business and Management Studies) MSc is designed for graduates wishing to pursue a career in academia, practitioners in management and business who wish to develop and strengthen their applied research skills, or those wishing to conduct research in non-academic public and private sector roles, such as think tanks.

Work Psychology

MSc

Full-time length: 1 year
Part-time length: 2-4 years
Entry requirements: A British Psychological Society (BPS)-accredited honours degree (2:1 or above) in Psychology or equivalent international qualification, plus evidence of numerical proficiency. Applicants with a 2:2 and relevant work experience may be considered. Please see website for more details.

Fees*: UK: £11,400  International: £25,650

Programme overview

Our MSc Work Psychology programme is accredited by the British Psychological Society (BPS) and is only available to students who currently hold a BPS-accredited undergraduate degree in Psychology. It is especially suited to students who wish to develop a career as an occupational psychologist. Completion of this BPS accredited programme fulfils the requirements of the Stage 1 qualification for those wishing to go on to eventually become a HCPC-registered Occupational Psychologist. It also opens up careers in personnel, HR and management or as a business consultant (eg selection and assessment, and change management).

You will receive in-depth training by experienced researchers and practitioners to enable you to apply the science of psychology to a wide range of organisational settings to influence important business decisions.

Modules

Modules studied may include: Gathering and Using Evidence in Work Psychology; Leadership and Performance Management; Employee Engagement, Motivation and Voice; Wellbeing and Work, Work Design, Organisational Change and Development. Psychological Assessment in Organisations; Career Development; Learning, Development and Knowledge Management. Empirical Research Project in Work Psychology.

You will be assessed

You will be assessed through group and individual coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Career prospects

Typical graduate roles for this programme include consultant work psychologist, trainee organisational psychology consultant, talent development analyst, science and analytics consultant, coaching centre co-ordinator, analyst, and behavioural health and safety specialist.

* subject to University Council approval
We’re committed to developing the Chemical Engineers of the future by providing essential knowledge and training in engineering, the sciences, technology, management and communication.

Research with impact
Our research is focused on three multidisciplinary areas: energy and environment, healthcare, and advanced manufacturing. Our cutting edge outputs are tackling the global challenges expected over the next 50 years, including the commercial production of stem cells, smarter disinfection of hospitals, fuel cell development, carbon capture to produce usable chemical components, and the optimisation of continuous manufacturing of pharmaceutical products.

Through this research we enjoy a number of close collaborations with companies such as Astra Zeneca, Biffa, Exxon Mobil, GSK, and Micropore.

World-class facilities
We have recently invested £25 million upgrading our facilities. This includes the redevelopment of our pilot engineering laboratory, providing over 50 state-of-the-art experimental rigs to demonstrate key engineering principles. Students also have access to upgraded computer and teaching laboratories and group working spaces. Our postgraduate taught students benefit from access to STEMLab, a £17 million state-of-the-art facility. It includes a suite of laboratories for practical work, allowing students crucial opportunities to gain hands-on experience.

We also have excellent research laboratory facilities, including the Centre for Biological Engineering (CBE) which has created new capacity and capability in biological engineering. It includes a suite of class 2 laboratories for microbial, animal and human-cell growth, as well as a bioelectrical facility and analytical suite.

Accreditation
Teaching and research is shaped by industry and partner feedback, this ensures that our graduates are well prepared for the ever-changing global jobs market. Accredited courses provide a fast-track to full chartered status and are often looked upon favourably by employers, thereby improving career prospects.

Equality and diversity in STEM
We are committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.

lboro.ac.uk/pg/chemeng
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline.

Fees: UK: see website International: £24,100

Our multidisciplinary research addresses the current and future challenges facing society through engineering solutions. Our department is a highly active, research intensive community of around 75 academics, researchers and doctoral students, using our excellent facilities to produce world-leading research outputs. Benefiting from the expertise and considerable experience of our staff, our thriving community of postgraduate research students are provided with an intellectually challenging and rewarding experience. As a student, you will have the opportunity to not only become an independent researcher, but also to create a lasting network of peers. You will be assigned a supervisor who will, together with the Director of Doctoral Programmes, provide you with a strong academic and pastoral support. Training and departmental seminars will help you to develop your skills and you will be expected to present your own research papers. You will be provided with your own desk and computer in a shared departmental office with access to library, IT and state-of-the-art laboratory facilities.

Our areas of research

Research by the department focuses on clean energy, environment, sustainability, healthcare and materials, examining how we can improve our way of life through advanced engineering solutions. As such, the department maintains an interest in the following research topics:

Energy and Environmental Engineering

Research in this area focuses on ways to efficiently use energy and maintain the environment. Through our research we focus on cleaner, more efficient ways to use fossil fuels, look at how we can reduce emissions through catalysis, and examine how we can use renewable and sustainable resources such as solar, wind, and wave energy through photo-electrochemistry. Researchers in this area are on the cutting-edge of renewable technologies, such as sustainable hydrogen from seawater splitting and advanced fuel cells, and are continually focusing on key issues relevant to the 21st century.

Our research therefore covers a wide range of topics. For example, we’ve investigated the development of technologies to produce low carbon clean fuels from biomass, water and renewable electricity; we’ve carried out work related to efficient hydrogen production, storage and application via fuel cells for green transportation, and we’ve looked at the application of plasma and electrochemical technologies for treatment of emerging pollutants in water. As a researcher in this area, you will be concerned about issues such as climate change, drought and energy crisis, and you will look to find engineering-based solutions to complex environmental problems.

Bioengineering and Healthcare

This group aims to undertake world-class research that leverages the latest developments in synthetic biology, genetic engineering, and stem cell and tissue engineering. Bioengineering applies engineering principles of design and analysis to biological systems and biomedical technologies, and provides solutions to tackling global healthcare challenges, such as antimicrobial resistance and enabling cost-effective production of high-value drugs. It is a cutting-edge, multidisciplinary subject that aims to improve human health by bridging the gap between health, medical, and engineering.

We focus on advancing studies in this area, leading to economically viable, sustainable and useful products and processes, ranging from antibiotics, cell and gene therapies, to vaccines, bioremediation and bioenergy.

Advanced Manufacturing

We have a leading reputation for our expertise in particle technology. Our research in this area focuses on nano-engineering and micro-engineering of particles regarding their manufacture, formulation and dispersion, and how they interact to make functional materials, interface structures and high-performance devices. Our research in pharmaceuticals manufacturing focuses on digital design, control and optimization of crystallization processes, to produce purified drug product particles with targeted properties, such as size distribution and morphology.

Our research in pharmaceuticals manufacturing focuses on digital design, control and optimization of crystallization processes, to produce purified drug product particles with targeted properties, such as size distribution and morphology. We focus on generation and characterisation of nano- and micro-scale particles for a range of end users, including the pharmaceutical, catalysis, energy and food sectors. For example, we’ve investigated fluid mixing to look at how nanoparticles are incorporated into a liquid, we’ve explored the generation and application of nano- and micro-bubbles, and the engineering of nanomaterials for fuel cells, batteries and thermoelectricity. Our research has also examined electrochemical processes for metal recycling, and nano-structured absorbents for blood purification.

Life cycle analysis is performed to assess the sustainability of the technologies and processes we developed.

Taught programmes

Advanced Chemical Engineering

MSc

Full-time length: 1 year

Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in engineering or physical sciences.

Fees: UK: £11,400 International: £25,450

Programme overview

Advanced Chemical Engineering addresses recent developments in the global chemical industry in a bid to provide you with a skill set that puts you amongst the strongest candidates in the field. This programme has been designed to advance your knowledge in chemical and process engineering by focusing on an in-depth understanding of the fundamentals of key chemical and industrial processes and on their application and translation to practice. You will encounter the latest technologies available to the process industries and will be exposed to a broad range of crucial operations and optimisation methods. Exposure to advanced tools and methods is our key to success.

Modules

The programme offers advanced modules covering a broad range of modern process engineering, technical and management topics. Core study areas may include: Process Simulation and Data Acquisition, Strategic Management and Research Methods and Planning. Optional study areas may include: Clean Energy and Sustainability, Advanced Engineering Separations, Interface and Colloid Science, Mixing and Downstream Processing.

How you will be assessed

You will be assessed by a combination of coursework, exams, presentations and a substantial project.

How you will study

You will study through a range of group work, independent study, lectures and workshops, supervision and tutorials.

Career prospects

Typical graduate careers span many industrial and process engineering sectors including chemical, biochemical, food, water, energy and pharmaceutical industries. Our previous students have gone on to work for a range of international companies including: BP, Exxon Mobil, GlaxoSmithKline, Petronas and Tata Steel Europe.

Advanced Chemical Engineering with Information Technology and Management

MSc

Full-time length: 1 year

Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in engineering or physical sciences.

Fees: UK: £11,400 International: £25,450

Programme overview

This programme addresses recent developments in the global chemical industry by focusing on advancements in information technology and business management skills. You will be provided with an in-depth understanding of the IT skills required for advanced chemical processes, whilst increasing your knowledge of entrepreneurship, marketing, risk, and financial management. Also central to this programme is the use of advanced modelling and simulation tools applied to broad engineering areas. This programme is accredited by the IChemE.

Modules

The programme offers advanced modules covering a broad range of modern process engineering, technical and management topics. Core study areas may include: Process Simulation and Data Acquisition, Strategic Management and Research Methods and Planning. Optional study areas may include: Clean Energy and Sustainability, Advanced Engineering Separations, Interface and Colloid Science, Mixing and Downstream Processing.

How you will be assessed

You will be assessed by a combination of coursework, exams, presentations and a substantial project.

How you will study

You will study through a range of group work, independent study, lectures and workshops, supervision and tutorials.

Career prospects

Typical graduate careers span many industrial and process engineering sectors including chemical, biochemical, food, water, energy and pharmaceutical industries. Our previous students have gone on to work for a range of international companies including: BP, Exxon Mobil, GlaxoSmithKline, Petronas and Tata Steel Europe.
Biomedical Engineering
MSc
Full-time length: 1 year
Part-time length: Not available
Entry requirements: A 2:1 honours degree or equivalent international qualification in engineering.
Fees: Please see website for details.
Programme overview
Building on Loughborough’s excellent reputation and successful history of engineering, this multidisciplinary programme bridges the gap between health, medicine and engineering, by equipping you with the knowledge and skills needed to enhance and improve healthcare.
The Biomedical Engineering field is rapidly developing, and Biomedical Engineers work in a range of global sectors, developing medical and healthcare products and creating technology to help people achieve a better quality of life. Biomedical Engineers have contributed to innovations in healthcare such as: diagnostics, imaging, artificial organs, prosthetics, and biomaterials implants.
Throughout this programme, you will build on your existing engineering skills to develop your ability to solve problems in medicine and healthcare, and learn how to work on projects with life-changing potential.
Modules
Modules studied may include: Biomedical Imaging, Biosensors, Biomaterials and Tissue Engineering.
There are also options to study modules covering areas such as Biofluidics and Biomedical Component Design.
How you will be assessed
You will be assessed by a combination of exams, coursework, class presentations and a research project.
How you will study
You will study through a varied mix of lectures, tutorials, independent study, group work, supervision and workshops.
Career prospects
Graduates can play a key role in developing the technologies that will enhance our health and standards of living. Their role may involve the development of new processes, products, devices or materials in the biomedical sector. They may also go on to work in a variety of subdivisions of the sector, focusing on areas such as biomedical electronics, advanced 3D medical imaging, image-guided and robot assisted surgery, tissue engineering including bioengineered skin for wounds, 3D bioprinting and medical device development.

Biotechnology
MSc
Full-time length: 1 year
Part-time length: Not available
Entry requirements: A 2:1 honours degree or equivalent international qualification in engineering.
Fees: Please see website for details.
Programme overview
Our MSc in Biotechnology is an interdisciplinary course, which focuses on applying skills in engineering and technology to global biological problems.
Biotechnology is a fast-growing, dynamic sector of the bio-economy and this programme has been designed to further develop your scientific and engineering knowledge to meet the demand for highly skilled scientists within the industry. Upon completion of the programme, you will be able to apply your engineering knowledge and skills to biological engineering problems.
As a Biotechnologist, you will help to improve the world around us by tackling global issues in bioprocessing, healthcare, medicine and immunology, for example, in developing processes to make sustainable products such as fuels or foods from biological resources, manufacturing of vaccines and antibiotics, or creating medical and environmental technology solutions to help people achieve a better quality of life. This may also include developing new medicines using DNA technology or improving methods of drug delivery in order to improve healthcare for the population.
Modules
Modules studied may include: Biotechnology and Genetic Engineering, Bioprocess Engineering, Bioinformatics and Technological Entrepreneurship. There are also options to study modules covering areas such as Drug Delivery and Biosensors.
How you will be assessed
You will be assessed by a combination of exams, coursework, class presentations, and a research project.
How you will study
You will study through a varied mix of lectures, tutorials, independent study, group work, supervision and workshops.
Career prospects
This programme will provide access to a broad range of career opportunities where graduates can play a key role in developing the technologies that will enhance our health and standard of living. Roles may involve the development of new processes, products, devices or materials in the biotechnology sector.

“The facilities are top quality and I am able to volunteer as a laboratory demonstrator, where I get to pass my experience to undergraduate students. I also have the opportunity to attend seminars and conferences, which enables me to network with people doing similar work all over the world.”
The Department of Chemistry has an international reputation for teaching and research excellence and is committed to providing high quality training and support for postgraduate students. We benefit from state-of-the-art facilities, enhanced by the University’s £17 million STEMLab and a £6 million investment in newly refurbished chemistry laboratories. Our research labs and study areas enable students to gain first hand experience of the latest techniques in analytical, environmental, inorganic, organic and physical chemistry.

Our research is industry relevant and spans a range of areas, including energy markers and detection, crime and security, chemical process technologies, and catalysis and functional molecules.

Our postgraduate students are part of a stimulating and inclusive academic community within the Department. They are regularly engaged in high-profile, high-impact research projects which continue to address real world problems in vital areas such as energy and the environment, defence and security, and health and medicine. Our academic and research staff are nationally and internationally recognised as experts in their fields.

Employability

Graduates can expect to develop their careers in the pharmaceutical and food industries, analytical and environmental laboratories, public and regulatory utilities, or industrial laboratories. Recent postgraduate destinations include Pfizer, Reckitt Benckiser, Nova Laboratories, GSK and ALS Environmental Ltd.

Equality and diversity in STEM

We are committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.

Our programmes

- Research opportunities PhD p74
- Analytical and Pharmaceutical Science MSc/PDip/PGCert p75
- Analytical Chemistry MSc/PDip/PGCert p75
- Pharmaceutical Science and Medicinal Chemistry MSc/PDip/PGCert p76

Sarah
PhD student

"Loughborough has a great record of interdisciplinary collaboration between its schools and I’ve had no problem accessing the outstanding facilities found across its departments, from 3D printer centres to materials characterisation labs."
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in chemistry or a closely related discipline.

Fees: UK: see website  International: £24,100

The Department of Chemistry offers popular and industry-relevant research opportunities across a range of areas including energy, markers and detection; crime and security; chemical process technologies; and catalysis and functional molecules. PhD students in the Department are a key part of Loughborough’s dynamic postgraduate community. Students are encouraged to participate in conferences and present their research in order to widen their perspective and grow their research network.

Supporting you

You will have at least two academic supervisors who will guide you in your research. We provide training courses on research methods, safety, use of instrumentation and offer a regular programme of seminars from visiting lecturers. Our research students attend group meetings and conferences and can gain practical experience of teaching undergraduate students, as well as having opportunities to undertake research placements.

How to apply

Projects which have funding attached are advertised on our online prospectus. For self-funded projects or those funded by third-party sponsors, you do not need to submit a detailed research proposal with your application, but you should indicate which area of research you wish to pursue and/or names of staff members you are keen to work with.

Our areas of research

Research is carried out in all areas of chemistry, and we have four main themes in the department:

- **Energy**
  - Research is focused on innovation in the production and storage of green energy, electrochemistry and photochemistry.

- **Markers and Detection**
  - The focus is on the discovery and application of markers of health, vitality and disease. New molecular markers provide valuable opportunities for other researchers, as well as different approaches to the management and characterisation of complex situations.

- **Catalysis and Functional Molecules**
  - The research involves the development of new catalytic methods and reaction chemistries to develop novel functional molecules with applications in health and materials science.

- **Crime and Security**
  - This research addresses a wide range of societal issues, including the development of new reagents and analytical methods for forensic fingerprint imaging and biofluid analysis; chemical, biological and radiological (CBRN) agent screening and stand-off threat detection in airports and other vulnerable locations.

As part of the School of Science, staff and PhD students may also contribute to our interdisciplinary research centres:

- Centre for Imaging Science
- Centre for the Science of Materials
- Centre for Geometry and Applications
- Centre for Analytical Science
- Interdisciplinary Centre for Mathematical Modelling
- Interdisciplinary Science Centre from Laboratory to Fabrication (Lab2Fab)

Centres for Doctoral Training

Centres for Doctoral Training (CDT) integrate PhD research and an enhanced research training package into a four-year integrated programme. The Department of Chemistry is part of the new EPSRC Centre for Sustainable Hydrogen (SusHy) in partnership with Nottingham, Birmingham and Ulster.

Taught programmes

**Analytical Chemistry**

MSc/Diploma/PG Certificate

- Full-time length: 1 year
- Part-time length: 2-5 years

Entry requirements: A 2:2 honours degree or equivalent international qualification in chemistry, biochemistry or a closely related subject.

Fees: UK: £11,400  International: £25,450

Programme overview

Our Analytical Chemistry MSc is designed to provide comprehensive training in analytical chemistry and its implementation in a variety of fields including biomedical, pharmaceutical, food and environmental analysis.

Analytical chemists assess the chemical structure and nature of substances. Their skills are needed for a variety of purposes including drug development, forensic analysis and toxicology. Analytical chemists can specialise in areas as varied as toxicology, pharmaceuticals and forensics.

The programme comprises a broad range of modules covering the major aspects of analytical and pharmaceutical chemistry, complemented by studies in transferable and professional skills.

You will be taught via a combination of self-learning and short courses with practical laboratory sessions and formal assessment by coursework and examination.

**Modules**

- Compulsory modules may include: Research Methods; Separation Techniques; Mass Spectrometry and Structural Analysis; Professional Skills and Dissertation; and a research project.
- Optional modules may include: Pharmacokinetics and Drug Metabolism; Sensors; Innovations in Analytical Chemistry; and Innovations in Medicinal Chemistry.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

**How you will study**

You will study through a range of lectures, seminars, tutorials and practical sessions, allowing you to gain experience in nanopore technologies, separation science and the latest techniques in mass spectrometry.

**Career prospects**

Recent graduate destinations include Novartis (Bioanalytical Scientist), Sanofi Genzyme (Analytical Chemist) and PhD projects in medical breath analysis and novel energy applications at Loughborough University.

**Analytical and Pharmaceutical Science**

MSc/Diploma/PG Certificate

- Full-time length: 1 year
- Part-time length: 2-5 years

Entry requirements: A 2:2 honours degree or equivalent international qualification in chemistry, biochemistry or a closely related subject.

Fees: UK: £11,400  International: £25,450

Programme overview

Our Analytical and Pharmaceutical Science MSc is a popular and industry-relevant programme designed for graduates in chemistry or closely related disciplines who wish to contribute to drug development and analysis, a process which requires multidisciplinary skills.

The programme comprises a broad range of modules covering the major aspects of analytical and pharmaceutical chemistry, complemented by studies in transferable and professional skills.

You will be taught via a combination of self-learning and short courses with practical laboratory sessions and formal assessment by coursework and examination.

**Modules**

- Compulsory modules may include: Research Methods; Separation Techniques; Pharmacokinetics and Drug Metabolism; Spectroscopy and Structural Analysis; and Professional Skills. You will also conduct a Research Training Project based either on a placement in industry or with a research group in the Chemistry Department.
- Optional modules may include: Mass Spectrometry and Associated Techniques; Drug Targets, Drug Design and Drug Synthesis; Sensors; Innovations in Analytical Science; and Innovations in Medicinal Chemistry.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

**How you will study**

You will study through a range of lectures, seminars, practical sessions, tutorials and group work.

**Career prospects**

Recent graduate destinations include Alliance Boots (Process Technologist), GlaxoSmithKline (Analytical Scientist), Nemaura Pharma Ltd (Development Scientist), and Quotient Clinical (Manufacturing Scientist).
Pharmaceutical Science and Medicinal Chemistry

**MSc/Diploma/PG Certificate**

- **Full-time length:** 1 year
- **Part-time length:** 2-5 years

**Entry requirements:** A 2:2 honours degree or equivalent international qualification in chemistry, biochemistry or a closely related subject.

**Fees:**
- UK: £11,400
- International: £25,450

**Programme overview**

Our Pharmaceutical Science and Medicinal Chemistry MSc will provide you with training in pharmacokinetics, drug metabolism, drug synthesis, and methods to identify potential drug targets and drug candidates, and to assess the biological activities of drug compounds. The programme focuses on the biochemistry, pharmacology, design, analysis and delivery of pharmaceutical substances, including the development of safe and effective drugs.

You will benefit from our state-of-the-art laboratories and enjoy access to a broad range of scientific instrumentation including 400 MHz, 500 MHz, solid-state and benchtop NMR spectrometers; single crystal and powder X-ray; a high resolution inductively-coupled plasma mass spectrometer; GC-MS and linear ion trap LC-mass spectrometers; ion mobility spectrometers; gas and liquid chromatographs; and tunable nanopore sensors.

**Modules**

- **Compulsory modules** may include: Research Methods; Pharmacokinetics and Drug Metabolism; Drug Targets, Drug Design and Drug Synthesis; Spectroscopy and Structural Analysis; Professional Skills and Dissertation; and a research project.

- **Optional modules** may include: Separation Techniques; Mass Spectrometry and Associated Techniques; Innovations in Analytical Science; and Innovations in Medicinal Chemistry.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

**How you will study**

You will study through a range of lectures, seminars, tutorials and practical sessions enabling you to gain experience in drug synthesis, binding assays and pharmacokinetics.

**Career prospects**

Recent graduate destinations include 3M (Analyst), Leading Edge – Brunei (Marketing Executive) and Pfizer (Materials Scientist).

“I chose Loughborough because it’s consistently a top 10 UK university and for its research reputation and student support.”
Communication and Media

Communication and Media at Loughborough has long been recognised as an international centre of academic excellence and for its cutting-edge interdisciplinary work.

This study area offers a rich variety of taught postgraduate master’s programmes relating to media, communication and culture. The courses are delivered by an internationally renowned interdisciplinary team, through the use of contemporary case studies and research-informed applied teaching and learning. These courses provide training in media, communications, digital culture, sociological and anthropological theory, as well as quantitative and qualitative methods.

These analytical and research skills are highly valued by global businesses, particularly those in the media and creative sectors.

Loughborough is home to world-leading, original and internationally-excellent research in communication and media with a wide range of public and third sector bodies (e.g. BBC Trust, Metropolitan Police, the Electoral Commission, the College of Mediators, and the Department of Health).

Our graduates have gone on to work in industries including television, marketing, academia and publishing. They work for companies and organisations such as China Development Research Foundation, Elsevier Ltd, Image Line Communication, Institute of Psychiatry, Metropolitan Police Service, Oxfam, and X-Pert Med GmbH.

“I love the variety of topics that we cover and the lecturers are so friendly and helpful. To anyone thinking about doing a master’s – apply! You will learn so much, you’ll have a great time and you’ll make really great friends.”

Lou
MA Media and Cultural Analysis

Our programmes

- Research opportunities PhD
- Digital Media and Society MA
- Global Media and Cultural Industries MA
- Media and Cultural Analysis MA
- Media History MA
- Social Media and Political Communication MA
- Social Science Research (Communication and Media) MSc
- Strategic Communication MA

lboro.ac.uk/pg/communication
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in a related subject.

Fees: UK: see website International: £18,100

Based within the School of Social Sciences and Humanities, Communication and Media comprises the disciplines of communication and media studies, and social psychology/language and social interaction. All of our academic staff are active researchers, working within and across disciplinary boundaries. The School is home to 130 postgraduates working closely with 100 specialist supervisors who are located in one of five main research areas:

- Communication and Media
- Politics and International Studies
- Social and Policy Studies
- Social Psychology
- Humanities

Renowned for the breadth of our research, we range across interpersonal and small-group communication, social media, political communication, media education, mainstream communications – including digital and online and the analysis of communicative work, such as tourism, popular music and memory.

Our core research themes within Communication and Media are all regarded as world-leading (REF 2014). We use a diversity of methods for data gathering and analysis and work with a variety of partners, including the BBC, the police, NSPCC and the Electoral Commission as well as our international collaborators, to deliver fundamental and applied research of exceptional quality.

Our areas of research

Communication and Media Studies

This group uses multidisciplinary approaches to analyse media and the communications industries and to provide advice to practitioners and policy makers. Comparative perspectives feature strongly in much of its work and members are internationally renowned for their research and publications.

Social Psychology

This group is internationally renowned for its research on language and social interaction across a range of everyday and institutional contexts, and on social identities, groups and processes. Leaders in the areas of conversation analysis, discursive psychology, and political psychology, the group publish widely on topics such as prejudice, identity, children and families, and communication in professional and clinical contexts. The internationally renowned Discourse and Rhetoric Group brings together social psychology staff and postgraduate students who are interested in the use of language in society.

Centre for Research in Communication and Culture (CRCC)

Comprises the world-leading Discourse and Rhetoric Group (DARG) and Culture and Media Analysis Research Group (CAMARG) involving staff from across the School. Their influential research has real world impact through seminars at the intersection of digital and the role of media and public engagement with private and public-sector organisations. Key areas of research expertise include discourse and interaction; political communication; media, memory and history; culture, politics and economy; nations and migrations; and social, political and cultural theory.

The Online Civic Culture Centre

This centre applies cutting-edge concepts and methods from social science and information science to understand the role of social media in shaping our civic culture. It features a team of academic supervisors drawn from the disciplines of communication, information science, social psychology and sociology. Interdisciplinary teams of researchers and PhD students work together on issues of misinformation, disinformation and the rise of hate speech and incivility online.

Doctoral Training Partnership (DTP)

The Department of Communication and Media is proud to be part of the ESRC Midlands Graduate School DTP in partnership with Warwick, Nottingham, Birmingham, Aston and Leicester. Established in 2016, the Midlands Graduate School is an accredited Economic and Social Research Council (ESRC) Doctoral Training Partnership. The DTP awards annually several postgraduate studentships across its various pathways and institutions.

Taught programmes

Digital Media and Society

MA

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in a wide range of subjects.

Fees: UK: £9,700 International: £19,950

Programme overview

Our Digital Media and Society MA offers a comprehensive understanding of current developments in digital media and their wider social significance. The programme is designed to provide you with an in-depth understanding of current thinking and debates on the integral role of digital media in contemporary life. It is delivered by a diverse interdisciplinary team with a strong profile in digital culture, media, sociology, anthropology and communication studies.

As part of the dissertation module, visiting speakers from across the media and creative industries will give guest lectures, providing insights into the sector.

Modules

Compulsory modules may include: Researching Communication; Understanding Modern Media; Digital Cultures; Digital Economies; Key Debates in Digital Media and Society; and a dissertation.

Optional modules may include: Media and Cultural Industries; Politics of Representation; Marketing Politics; Introduction to Strategic Communication; Social Media and Political Communication; Media and Cultural Work; and Data Power and Democracy (dependent on availability and timetabling constraints).

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through seminars, lectures, tutorials, independent study, group work, supervision and workshops.

Career prospects

Graduate destination data is not yet available for this programme. However, this degree is suitable for those interested in working in the following sectors: public relations and marketing, government and corporate research, digital media campaigns, branding, creative and cultural industries.

Global Media and Cultural Industries

MA

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in the social sciences or humanities.

Fees: UK: £9,700 International: £19,950

Programme overview

Global media and cultural industries are important sources of employment and economic growth internationally. This MA programme focuses on the development of these global industries and the role that states play in governing them. It also explores the impact that digitalization has had on various media sectors, including film, television, advertising and publishing, as well as the growing power of the major digital platforms. These processes are used to highlight the importance of issues such as copyright, privacy, user-generated content and regulation to media companies around the world.

The programme draws on the considerable expertise in transnational and comparative research, as well as our engagement in the political economy of communication from our Centre for Research in Communication and Culture.

Modules

Compulsory modules may include: Researching Communication; Media and Cultural Industries; Understanding Modern Media; Media and Cultural Work; Key Debates in Media and Cultural Industries; and a dissertation.

Optional modules may include: Digital Economies; The Politics of Representation; Marketing Politics; Introduction to Strategic Communication; Social Media and Political Communication; Media and Cultural Democracy; Political Psychology; Digital Cultures; and Cultural Memory and Heritage Industries (dependent on availability and timetabling constraints).

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and group work.

Career prospects

Recent graduates have gone on to work for ADVEN蒂 Communication, Bloomberg Businessweek China, Fujian Broadcasting & Media Group, Brightwire News, and Lane Crawford Ltd.

Graduate job titles include Marketing Coordinator, Media Coordinator, Reporter, Writer, Editor on New Media, and Multi-screen Interactive Editor.
Programme overview

This MA programme provides a critical introduction to key areas of media and cultural analysis. The core modules address three major concerns: the role of the media in everyday social life and in the public domain; how the media construct and communicate meaning; and the ways in which the media are involved in and contribute to the distribution of power in social life. The programme is specifically concerned about how these issues play out in an international context. You will benefit from a bespoke package of study skills support that we have designed in collaboration with the Academic Language Support Service. This is run through the dissertation module in the first term. It supports you in using and interpreting academic literature, referencing, critical thinking and developing your own writing style.

Modules

Compulsory modules studied may include: Media and Cultural Industries; Researching Communication; Politics of Representation; Understanding Modern Media; Key Debates in Media and Cultural Analysis; and a dissertation.

Optional modules may include: Digital Economies; Marketing Politics; Introduction to Strategic Communication; Social Media and Political Communication; Data Power and Democracy; Political Psychology; Media and Cultural Work; Digital Cultures; and Cultural Memory and Heritage Industries (dependent availability and timetabling constraints).

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and workshops.

Career prospects

Recent graduates have gone on to work for Viacom, China Daily, Jianguo Broadcasting Corporation, Shanghai Media Group, KMPG, QS Intelligence Unit, Xinhua News Agency and Hakka TV.

Graduate job titles include Media Producer, Journalist, News Centre Video Director, Reporter, and Marketing Communication Manager.

Programme overview

Our Social Media and Political Communication MA is an exciting and unique programme which will give you advanced knowledge of how social media shapes the exercise of political power in today’s turbulent world. The digital age has produced some of the most remarkable developments in modern history. The Arab Spring, Occupy, Brexit, the #MeToo movement, the election of Donald Trump, the growth of online misinformation and automated propaganda, debates over online “filter bubbles” and fake news, mass microtargeting of political messages, and concerns about the growing power of social media platforms, algorithms and big data over the lives of citizens.

On this innovative programme you will conduct advanced, in-depth analysis of the complex relationships between social media, political influence and power. You will explore the consequences for democracy by critically examining how social media shapes citizens’ knowledge, participation and empowerment.

Modules

Compulsory modules may include: Social Media and Political Communication; Data, Power, and Democracy; Marketing Politics; Key Debates in Social Media and Political Communication; Researching Communication; and a dissertation.

Optional modules may include: Political Psychology; Digital Economies; Understanding Modern Media; Introduction to Strategic Communication; Cultural Memory and the Heritage Industries; Media and Cultural Industries; Digital Cultures; The Politics of Representation; and Media and Cultural Work (dependent availability and timetabling constraints).

How you will be assessed

You will be assessed through coursework and a dissertation.

How you will study

You will study through seminars, lectures, group work, practical sessions, projects, social media campaign design and simulation, supervision and workshops.

Career prospects

Graduate destination data is not yet available for this programme. However, this degree is suitable for those interested in a career in; corporate or government research, data analytics, market research, advocacy or academia.
Strategic Communication

MA

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in the social sciences or humanities.

Fees: UK: £9,700  International: £19,950

Programme overview
The Strategic Communication MA is designed to provide you with an in-depth understanding of the uses, and abuses, of communication by a range of government, corporate and third sector organisations.
Throughout the programme there will be a particular focus on how different organisations develop and realise key strategies in the communication of not only products and ideas but also places and experiences. Of particular interest will be changes in these communication practices as a result of both digitalisation and globalisation and there will be opportunities to engage with theoretical approaches, as well as practical examples and case studies from around the world. You will examine both historical and contemporary campaigns, events and media platforms looking at the work of different stakeholders and how they have used various strategies and technologies to communicate key messages.

Modules
Compulsory modules studied may include:
Introduction to Strategic Communication; Researching Communication; Understanding Modern Media; Key Debates in Strategic Communication; and a dissertation.
Optional modules may include: Data, Power and Democracy; Political Psychology; Digital Cultures; Marketing Politics; Media and Cultural Industries; Digital Economies; Social Media and Political Communication; The Politics of Representation; Media and Cultural Work; and Cultural Memory and the Heritage Industries (dependent on availability and timetabling constraints).

How you will be assessed
You will be assessed through a combination of essays, reports, individual and groups presentations and a dissertation.

How you will study
You will study through a range of seminars, lectures, practical sessions and workshops.

Career prospects
The MA Strategic Communication will provide an excellent platform for those looking to build a career in the following areas; advertising, marketing, public relations, advocacy, campaign management, place branding and market research.

“There are chances to communicate with people from different cultural backgrounds, which is what I enjoyed the most. I also like the challenges that my programme offers me.”
The Department of Computer Science is committed to delivering inspiring teaching and cutting-edge research at the forefront of technological innovation.

Founded in 1974, the Department of Computer Science is one of the most well-established university computing departments in the UK with a long track record of developing skilled and highly employable graduates, as well as a reputation for cutting-edge research and industry engagement.

As a postgraduate student within the Department you will benefit from 24-hour exclusive access to state-of-the-art computer labs, including a dedicated MSc laboratory, operated by a team of systems specialists. The Department boasts excellent facilities including five general computer labs, specialist labs for robotics, networking, HCI and imaging technology, seminar and study rooms. Visual Paradigm supports Loughborough University with the use of UML tools, BPMN tools and agile story mapping tools.

Our postgraduate programmes have been developed in collaboration with a number of national and international partners to ensure they meet the needs of industry and provide students with the latest knowledge and skills sought by employers. Industry partners not only inform the curriculum but also shape the way research and projects are conducted. Organisations such as BAE Systems, Jennic, Arqiva, Sure, Advantica, Toyota, Sensinode, Rolls-Royce and DSTL (Defence Science and Technology Laboratory) have collaborated with the Department to develop new ideas and solve the challenges facing industry today.

Excellent career prospects
Graduates from the Department have entered a diverse range of organisations, including Atos, British Sugar, Nomura, Sophos, PwC and Bombardier Transportation, taking on roles in network engineering, systems engineering, software development and programming.

Research with impact
The Department’s research continues to have a positive impact in such diverse areas as computer networks, multimedia, logistics, healthcare, the emergency services, transport, surveillance and the environment, amongst others.

Equality and diversity in STEM
The School of Science is committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.
Research opportunities

PhD: 3 years full-time; 6 years part-time
Integrated PhD: 4 years full-time

Entry requirements: A 2:1 honours degree or equivalent international qualification or equivalent experience in an area related to computer science.

Fees: UK: see website International: £24,100

Artificial Intelligence

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:2 honours degree (or equivalent international qualification) in computer science or a related discipline which includes programming.

Fees: UK: £11,400 International: £25,450

Programme overview

Artificial Intelligence (AI) is rapidly changing the world and the advances being made in this fast-paced field of computer science creates a demand for highly skilled individuals possessing the skills and knowledge with which our MSc programme is designed to equip you. Drawing on the Department’s research strength, our MSc Artificial Intelligence will appeal to students seeking to build on a first degree in Computer Science by specialising in the quickly evolving fields of AI, data mining and machine learning – areas that are already having a profound impact in everything from business and finance to health and the environment.

Modules

Modules may include: Programming for Specialist Applications; Robotics and Intelligent Systems; Artificial Intelligence; Data Mining; Computer Vision; Applied Machine Learning; and an AI research project.

How you will be assessed

You will be assessed on a combination of exams, coursework, class presentations and a dissertation on an agreed topic.

How you will study

You will be taught through a range of lectures, seminars, presentations, tutorials and computer-based self-managed materials, in combination with laboratory exercises.

Career prospects

With module content influenced by industry, and specialist equipment supporting experiential learning, our master’s in Artificial Intelligence is designed to support future careers in both industry and academia.

AI is a rapidly growing area with many applications across wide-ranging organisations in all sectors and, as such, opportunities exist for talented individuals with specialist knowledge in AI. This is a new programme for 2020 so no graduate data is available as yet.

Our areas of research

Vision, AI, Autonomous and Human-Centred Systems (VAAH)

This research theme focuses on both theoretical and application aspects in artificial intelligence, computer vision, robotics and autonomous systems, machine learning, bio-inspired AI, pattern recognition, embedded intelligence, image processing, as well as HCI and human-factors. We collaborate extensively with industry to ensure the relevance of its research. We have a very good track record of attracting funding from EPSRC, Newtown Fund, Innovate UK, EU, Home Office, NHS and UK industry. Our research has been successfully applied to a variety of real-world domains which include: service robots, agricultural robots, driverless vehicles, UAVs, underwater robots, human motion analysis, medical imaging, security and surveillance, sports, environment monitoring, ambient assisted living, risk and safety assessment, commodity trading, and manufacturing.

Networks and Systems (NetSys)

Theories and technologies in networking, sensing, control and communication play important roles in the modern world and are expected to remain of great significance in the future. Our research focuses on all aspects of networking and communicating systems, and addresses specific issues related to the internet and control, wireless sensor networks, network performance modelling and measurement, performance evaluation with Quality of Service (QoS) constraints, and application performance investigation. Work ranges from the underlying mathematical theory to practical creation and operation of networked systems. Research strengths include international wireless sensor networks, internet Quality of Service and congestion control, coding theory, and accessibility and usability.

Theoretical Computer Science (TCS)

The research of the TCS group covers a relatively wide range of established and emerging fields in Theoretical Computer Science, including mathematical logic, formal languages, computability and complexity theory, numerical analysis, cryptography, geometric computation, algorithmic learning theory and energy efficient scheduling.

As part of the School of Science, PhD students within the Department may also contribute to our interdisciplinary research centres:

- Centre for Imaging Science
- Centre for the Science of Materials
- Centre for Geometry and Applications
- Centre for Analytical Science
- Interdisciplinary Centre for Mathematical Modelling
- Interdisciplinary Science Centre from Laboratory to Fabrication (Lab2Fab)

Taught programmes

Advanced Computer Science

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:2 honours degree or equivalent international qualification in computer science or a related discipline which includes programming.

Fees: UK: £11,400 International: £25,450

Programme overview

Our Advanced Computer Science MSc has been developed with input from UK and international organisations to equip students with the cutting-edge practical skills sought by employers.

The fast-paced field of computer science – and the needs of industries and organisations that are driven by technological development – creates a demand for highly skilled individuals possessing the advanced skills and knowledge with which our MSc programme is designed to equip you. Developed with input from UK and international organisations, ensuring commercial relevance, and drawing on the Department’s research strengths, the Advanced Computer Science MSc will appeal to students seeking to build on a first degree in Computer Science or a comparable discipline involving programming and networking. It will develop your professional skills and allow you to specialise in areas such as image processing, multimedia, artificial intelligence, robotics, network systems and theoretical computer science.

Modules

Modules may include: Advanced Programming; Building Secure Networks; Computer Vision and Embedded Systems; Cryptography and Secure Systems; Robotics and Intelligent Systems; Wireless Networks; Research Methods; Project Preparation; and a research project.

How you will be assessed

You will be assessed by a combination of exams, coursework, class presentations and a dissertation on an agreed topic.

How you will study

You will be taught through a range of lectures, seminars, presentations, tutorials and computer-based self-managed materials, in combination with laboratory exercises.

Career prospects

Our graduates have gone on to pursue rewarding careers within a wide variety of organisations, including Alstom (software development), Sophos plc (Network and security engineering), ESOS Ltd (web development) and Bombardier Transportation (network engineering).
Data Science MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: TBC
Fees: UK: £11,400  International: £25,450

Programme overview
Designed in collaboration with industry partners and supported by funding from the Office for Students (OfS), our new MSc in Data Science conversion programme has a unique focus on problem-based learning and offers modules which lead to pathways designed to support your career goals and aspirations.

You can tailor your degree by selecting modules from complementary STEM and non-STEM pathways depending on your academic/professional background and career goals. The STEM modules focus on data analytics and machine learning, and the non-STEM modules focus on understanding how artificial intelligence, big data and data science influence the business context.

This unique MSc conversion programme in Data Science offers an excellent solution for graduates wishing to upskill to pursue roles in data science, data analytics, management and stewardship.

Modules
The programme will include modules focused not only on fundamental data science, but also design thinking and innovation, data governance and ethics and data analysis. There will also be a number of options to allow you to choose a pathway specific to your prior experience and future aspirations.

How you will be assessed
You will be assessed by a combination of exams, coursework, class presentations and a dissertation on an agreed topic.

How you will study
You will be taught through a range of lectures, seminars, presentations, tutorials and computer-based self-managed materials. Delivery of the programme is designed to be flexible with much of the content delivered online, thereby minimising the need to be on campus.

Career prospects
The gathering, processing, interpretation and evaluation of data and information is vital in today’s world, and as our technological capacities expand so will the applications of data science. This MSc programme will equip you with the skills of a data scientist, enabling you to work in a wide variety of roles within a wide variety of industries. As this is a new programme for 2020 we do not have any graduate destinations to report on. However, the kind of positions we would anticipate graduates of this programme gravitating towards would include roles as data scientists, data engineers, data managers and data stewards.

“It’s a great campus with some excellent facilities and there are plenty of opportunities for networking.”
Loughborough University Creative Arts has an impressive reputation for teaching and research excellence in the fields of visual and performing arts.

Creative Arts is a thriving research community with a proven record for both creative and scholarly outputs of international excellence.

Our research takes place both through individual scholarship and in collaboration with research partners in the UK and across the world. We investigate new directions in both the creation and the analysis of a wide range of cultural forms.

We are also committed to knowledge transfer and knowledge exchange projects and we use our research strengths to form links with the creative industries, to develop the entrepreneurial side of our activities, and to foster a range of productive and effective knowledge transfer partnerships.

Students have full access to a range of outstanding learning and teaching facilities, including newly refurbished study areas, state-of-the-art audiovisual equipment, a theatre, music rooms and a variety of spaces for seminars and small group activities.

Six creative hubs form the heart of creativity and production at Loughborough. These are:

- Creative Digital Technology and Photography
- Print, Dye, Weave, Stitch and Digital Embroidery
- Wood, Metal, Plastics and Laser
- Painting and Print Making
- Ceramics and Mould Making
- Performance and Rehearsal Spaces, Costumes, Sets and Props.

Shruti
MA Graphic Design and Visualisation

“I was drawn to this master’s because it offered more room for creativity. The course involves independent learning through research and experimentation.”

Our programmes

Research opportunities PhD p94
Graphic Design and Visualisation MA p95
Storytelling MA p96
Theatre MA p96

lboro.ac.uk/pg/creativearts
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: An honours degree (2:1 or above) or equivalent international qualification in a related subject.

Fees: UK: see website International: £18,100

Based within the School of Design and Creative Arts, Loughborough University Creative Arts comprises the disciplines of Drama, Fine Art, Graphic Communication, Illustration and Textiles.

We welcome applications in any of the areas listed in this section. Prospective students are encouraged to explore the research activity of our staff and to contact them directly for advice before submitting an application. Our PhD programme allows for either a text-based research project, or for a practice-based one.

The practice-based PhD requires an appropriate presentation of practice-based research and a text of up to 40,000 words; for the fully text-based PhD the word length is 80,000 maximum.

Usually PhD students have two supervisors. Both may come from Creative Arts or if appropriate, supervisors from this area may co-supervise with staff from other parts of the University.

Extended proposals and an interview are necessary before applicants are finally accepted. Applicants will normally be asked to supply a written proposal of 2,000 words outlining their projected research, and (in the case of practice-based proposals) images of work or other appropriate documentation.

When considering applying for a PhD, please bear in mind that the generally accepted definition of a doctorate is ‘an original contribution to knowledge/theory’. The project proposal should, through the parameters of its aims and its questioning, be written with this in mind.

Our areas of research

The following list constitutes our main research groups.

Animation Academy
The Animation Academy is a centre for animation research, scholarship, practice and exhibition, embracing tradition and progress, education and industry, art and commerce. It is dedicated to excellence at a national and international level in all its activities.

Arts in the Public Sphere
Our Arts in the Public Sphere research group aims to explore the historical and contemporary relation between the artist as producer to a variety of public spheres, to investigate how contemporary social groups understand matters of ‘public interest’, and to assess how the idea of the ‘common good’ is approached and represented in the arts and humanities.

Drawing and Visualisation (TRACEY)
Since its inception in 1998, the Drawing and Visualisation research group’s key aim has been to explore and examine drawing and visualisation research processes physically, cognitively and critically.

Genders and Identities
The Genders and Identities group is a research theme that spreads across Schools, mainly between Creative Arts and the School of Social Sciences and Humanities. We take an inclusive, intersectional approach to (cultural) politics, including those of gender, sex, class, race, and ethnicity.

Politicized Practice
The Politicized Practice Research Group starts from a shared question rather than a specific disciplinary context, asking, how can contemporary art contribute to social and political change?

Sculpture Research Group
The Sculpture Research Group unites nationally and internationally important scholars and practitioners with interests in sculpture and three-dimensional objects, including architecture, from the Middle Ages to the contemporary. We have received major awards from the UK Research Councils, from the Henry Moore Foundation, the Paul Mellon Foundation and the Leverhulme Foundation and have won international commissions from the UK to Canada and China.

We study some of the greatest ever sculptors and work with some of the most important of the present day. Our interests include 3D scanning and CAD design and we have pioneered the use of 3D and CAD re-creation for national and international heritage projects.

Storytelling Academy
The Storytelling Academy brings together our extensive research activity in Applied Storytelling, including performative and digital forms of storytelling. We have been engaged in over 25 projects throughout the UK, Europe, India, Kenya, Uganda, Colombia and the USA, funded through the UK Research Councils, the British Academy and the European Commission. Our work is interdisciplinary and collaborative in nature and focuses on how storytelling is a democratising practice that can help bring new voices and knowledge into public conversations around major global challenges in the areas of environment, health, education and social justice.

storytellingacademy.education

Textile Design
The Textile Design Research Group is committed to understanding and progressing textile design research and practice through both traditional and practice-led approaches, particularly within collaborative and interdisciplinary working contexts.

Theatre and Performance
The Theatre and Performance Research Group is concerned with research into all forms of performance, both historical and contemporary. Our research-active staff are currently involved in a variety of projects, both discipline-based and inter and multi-disciplinary.

Career prospects
Graduate destination data is not yet available for this programme. However, this degree is suitable for those interested in working in graphic design related fields.

Taught programmes

Graphic Design and Visualisation

MA
Full-time length: 1 year
Part-time length: 2 years

Entry requirements: An honours degree (2:1 or above) or equivalent international qualification in an art and design discipline or closely related subject. Additional entry requirements apply. Please see website for more details.

Fees: UK: £9,700 International: £19,750

Programme overview
Our Graphic Design and Visualisation MA aims to develop a specialist approach to graphic design and visualisation through combining traditional and contemporary approaches in the field.

You will be taught in a progressive, research-intensive environment, and will gain a first-hand understanding of the relationship between design and research by working alongside research and academic staff.

You will be given opportunities to develop a personalised visual language through visual thinking combined with traditional and contemporary media. Theory and practice are intertwined as you express your ideas through the production of written assignments and artefacts that are aligned with your specialist area of interest.

You will have full access to a range of outstanding learning and teaching facilities, including newly refurbished study areas, state-of-the-art audio visual equipment, a theatre, music rooms and a variety of offices for seminars and small group activities. These inspiring spaces will enable you to explore numerous creative possibilities and produce work of an industry standard.

Modules

Modules studied may include: Design and Research; Exploring Materials Processes and Techniques; Practice and Enterprise; Final Project: Situating and Rehearsing; Exploring Materials Processes and Techniques; Practice and Enterprise; Final Project.

How you will be assessed

Assessment is continuous and based on an appraisal of practice, written material, related research, and professional and entrepreneurial skills in relation to the final project outcome(s).

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, field trips, supervision and workshops.

Career prospects

Graduate destination data is not yet available for this programme. However, this degree is suitable for those interested in working in graphic design related fields.
I benefit from the excellent facilities within the School of Design and Creative Arts as well as facilities across the whole campus, which help me meet the requirements of my research goals.
We are proud to be helping the next generation of designers (industrial, product, interaction, user experience and human factors) develop truly life-changing products and services of the future.

Our expertise and teaching is built on the design principles of aesthetics, technology and understanding the user. We offer five postgraduate taught programmes and a range of research opportunities that are designed to help you develop your critical awareness, nurture innovative ideas and truly understand the role of design in the world around you.

We have particularly close links with a range of world-class businesses and organisations, including:
- Adidas AG
- British Council
- Camelot
- Deloitte Digital
- Department for Transport
- Ford
- Hubbub
- IBM
- Innovate UK
- Jaguar Land Rover
- National Health Service
- Nissan UK
- Sainsbury’s
- United Nations

Based in a £21 million state-of-the-art building, we have a wealth of facilities, including access to specialist software, workshops and laboratories. Our research facilities include a fully equipped ergonomics laboratory, eye-tracking devices, driving simulators, climatic chambers and additive manufacturing machines.

Dora
MSc Ergonomics and Human Factors

“The learning environment and the quality of teaching is excellent. I also love the fact that my peers come from very diverse academic and occupational backgrounds – they bring their unique knowledge and experiences to the classroom environment, which I really appreciate.”

Our programmes

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Research opportunities

PhD: 3 years full-time, 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification.

Fees: UK: see website International: £24,100

The School’s ethos is the use of design to make improvements to the world. Our academic staff are internationally renowned experts in their fields. They bring a diverse mix of specialisms and backgrounds to the School and can supervise PhDs or MPhilIs across all aspects of design.

Supporting you

We will provide you with everything you need to help ensure you have a great experience and are successful in your research. You will have the opportunity to become part of an exciting community of students, academic staff and researchers. Each student will have two supervisors and we will also provide IT equipment, including state-of-the-art design and ergonomics software; regular research seminars and training courses; opportunities to support undergraduate teaching; special tutor sessions in your first year; networking and career-focused opportunities; and student-led initiatives to provide support throughout your studies.

How to apply

Projects that have funding attached (eg through research consultancies in various sectors (medical device, automotive, government agencies and design/engineering/ risk consultancies in various sectors (medical device, defence, rail, automobile, nuclear, oil and gas, etc.)). Other graduates have gone on to pursue further research careers (PhDs).

Our areas of research

Our world-leading research is interdisciplinary, both within the School and across other academic disciplines at Loughborough. We welcome enquiries and applications from students whose research aligns with our strengths.

Safety

Our research addresses safety by exploring how people and technologies interact, within organisational and environmental contexts, affecting safety outcomes. Key areas include transport safety, including advanced vehicle systems and future mobility; healthcare and patient safety; and occupational safety.

Human Factors

The School has extensive expertise in human factors and ergonomics, developing and applying knowledge and techniques to improve human interaction with products, equipment, environments and systems. Particular areas of specialism are environmental ergonomics, vehicle design and human factors in complex systems.

Digital Fabrication

Our digital fabrication research examines how design practice, processes and tools can be optimised to maximise the advantages of the latest digital design and manufacturing technologies such as Computer-Aided Design, 3D Printing and Additive Manufacturing.

Experience Design

In the area of experience design, our research places the user at the centre of the design process to design innovative and meaningful products, environments and services, focusing on the quality and value of the user experience.

Responsible Design

Research in responsible design explores how design helps achieve society’s sustainable development goals, addressing issues of sustainability, equity and wellbeing through sustainable design, inclusive design and social innovation. Our interests in this area encompass responsible design philosophy, theories, practices, processes, methods, tools and education.

For more information about our Centres for Doctoral Training (CDT), please see lboro.ac.uk/pg/cdt

Taught programmes

Ergonomics and Human Factors

MSC/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 2-3 years

Entry requirements: An honours degree (2:1 or above) or equivalent international qualification in various disciplines (design, engineering, psychology, computer science, sports science, management, medicine, nursing, etc.).

Fees: UK: £11,400 International: £25,450

Programme overview

Our Ergonomics and Human Factors programmes aim to develop your skills and competencies in analysing interactions among humans and other elements of a system, and designing interactions that ensure a good fit between people, their actions, the objects they use and the environments they occupy. Since its establishment in 1959 our programmes have been continuously innovated to respond to new complex challenges in healthcare, transportation, energy, military, sports performance, HCI, UX design and more. The programmes are accredited and professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF).

Modules


How you will be assessed

Assessment may include individual reports, group evaluations, group presentations, open book tests, class tests, critiques, coursework, a dissertation and a viva.

How you will study

Each module is block taught over a one-week intensive period at Loughborough and you will complete assignments outside of this time. All materials and information are available through our online system.

Career prospects

Successful completion of this programme will enable you to become a professional ergonomics human factors practitioner.

Example jobs held by our recent graduates include: Head of Patient Safety, National Patient Safety Incident Investigator, Human Factors Specialist for Medical Device, Risk Manager, and Human Factors Consultant.
Integrated Industrial Design

MSc

**Full-time length:** 1 year  
**Part-time length:** Not available  

**Entry requirements:** An honours degree (2:1 or above) or equivalent international qualification in a related subject, evidence of at least a foundation in technology engagement and a demonstrable knowledge of 3D CAD. A portfolio providing evidence of experiential learning and/or practice, with clear evidence of physical prototyping capability, at an appropriate standard is required.

**Fees:**  
UK: £11,400  
International: £25,450

**Programme overview**  
Our Integrated Industrial Design MSc will further develop your critical awareness of major industrial design practice, increasing your input capability and value to employers. The programme encompasses the entire design process, starting from a design problem or opportunity and ending with a complete product that is fit for mass or batch production. It covers areas such as sketching, visual layouts, presentation techniques, qualitative and quantitative design research methods, enterprise and business, design for behaviour change, creating product design briefs, project management, advanced CAD application and design practice. You will develop skills in producing a balanced portfolio of high quality designs and innovative thinking, enabling you to deal with complex and interrelated issues, both analytically and creatively. The programme also provides you with opportunities to participate in industry supported projects.

**Modules**  
Modules studied may include: Industrial Design and Technology Skills; Digital Fabrication; Advanced 3D CAD; Design Research Methods; Design for Behaviour Change; Business, Enterprise and Design; Integrated Industrial Design Major Project.

**How you will be assessed**  
You will be assessed by coursework, including the submission of projects, dissertations and group/individual presentations.

**How you will study**  
You will study through a range of seminars, lectures, tutorials, independent study, practical sessions, supervision and workshops.

**Career prospects**  
Possible careers include industrial designer, product designer, or as a user-centred multidisciplinary design team member (with design-maker and prototyping skills).

Occupational Health and Safety Management

MSc

**Full-time length:** Not available  
**Part-time length:** Up to 2 years

**Entry requirements:** A 2:2 honours degree (or equivalent international qualification) with relevant professional experience in the occupational health and safety sector.

**Fees:**  
UK: £11,400  
International: £25,450

**Programme overview**  
This programme is aimed at professional health and safety advisors and managerial, engineering and scientific staff with responsibilities for occupational safety and health (OSH). It gives students the opportunity to advance their understanding of OSH management, moving this to a higher level. The programme provides the academic knowledge and skills to develop sophisticated OSH policies, strategies and interventions, relevant to a variety of organisational contexts, against a backdrop of ever-changing regulatory, social and economic contexts.

**Modules**  
Modules studied may include: occupational health and safety law; risk management; human factors and safety; research skills and training; the management of physical hazards; occupational health and safety management; and data collection and analysis.

**How you will be assessed**  
100% coursework, including the submission of projects, dissertations and group/individual presentations.

**How you will study**  
The majority of modules are delivered at the University, face-to-face, each taking place during the course of a week. This arrangement promotes a fulfilling learning experience, giving the benefits of close interaction with student colleagues and acknowledged experts in the field.

**Career prospects**  
The majority of our students are already working in OSH positions. Pursuing the MSc has been shown to increase further employability. Many graduates from the course have since gone on to occupy senior roles within a diverse range of industries.

User Experience Design

MA

**Full-time length:** 1 year  
**Part-time length:** Up to 4 years

**Entry requirements:** An honours degree (2:1 or above) or equivalent international qualification. Most applicants have a design background but we welcome students from any discipline relevant to user experience design, including but not limited to: psychology, computer science, engineering, marketing, architecture and business studies. All students from a design related background should provide a portfolio showing examples of relevant work. For those who are not able to provide a portfolio, it is important that their personal statement explains their interest in user experience design and any relevant experience.

**Fees:**  
UK: £9,700  
International: £19,950

**Programme overview**  
Our User Experience Design MA aims to develop your critical awareness of major issues in user experience design, service design and interaction design. The content of the programme enables you to develop your skills and competencies in both the creative and analytical aspects of user experience design whilst working on a diverse range of projects. You will develop key skills in user experience design principles and practice, qualitative and quantitative design research methods, interactive screen-based prototyping, interaction design, usability testing, service and social design, team working and project management. You will benefit from specialist eye-tracking and audio visual equipment as well as state-of-the-art wearable cameras and our Mac lab with a wide range of design and UX software.

**Modules**  
Modules studied may include: Experience Design; Usability: Principles and Practice; Design Research Methods; Design for Behaviour Change; Industry Project; Service Design for Social Innovation; User Experience Design Major Project.

**How you will be assessed**  
You will be assessed by coursework, including the submission of design projects and reports, and group and individual presentations.

**How you will study**  
You will study through a range of seminars, lectures, tutorials, independent study, practical sessions, supervision and workshops.

**Career prospects**  
Our graduates work as user experience designers and researchers, interaction designers and service designers. Graduate destinations include: IBM, Samsung, Next, Dyson, Tencent, Baidu and Ali Baba. Other graduates have gone on to pursue careers in research and are currently completing PhDs.
Geography and Environment offers a diverse portfolio of postgraduate teaching and research opportunities covering the full breadth of contemporary physical and human geography.

Each programme includes training and support to develop the key transferable skills and attributes required to continue into careers across a range of industries and sectors. On completion of their programme, many postgraduates have continued into roles with government agencies, not-for-profit organisations, the European Commission and the United Nations.

We are located inside a state-of-the-art research and teaching facility, complete with a river science laboratory, geospatial laboratory and several meteorological and hydrological field stations. The campus also has a 16-hectare research forest comprised of ancient and semi-natural woodland.

**Inspiring research**

Our academic staff are driving forward intellectual agendas in physical and human geography, as well as helping to shape national and international policy. This expertise ensures that the knowledge you are getting throughout your programme is at the cutting-edge of scientific research and focused on some of the most important issues in society today.

Becoming a postgraduate student within Geography and Environment provides you with the opportunity to become part of this innovative research community.

We are a dynamic and vibrant place to be a postgraduate student and we are proud of our reputation for creating a friendly and supportive environment.

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**Our programmes**

Research opportunities PhD / MPhil  
Childhood, Youth and Social Policy MA  
Environmental Monitoring, Research and Management MSc  
International Financial and Political Relations MSc  

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“The knowledge and expertise here is outstanding. I am thrilled I’ve had the opportunity to study at Loughborough University!”

Ciara  
PhD student

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[link](https://lboro.ac.uk/pg/geography)
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in geography or a related discipline.

Fees: UK: see website; International: £18,100

Based within the School of Social Sciences and Humanities, academic staff in Geography and Environment are active researchers, working within and across disciplinary boundaries. The School is home to 130 postgraduates working closely with 100 specialist supervisors who are in one of five main research areas:

- Communication and Media
- Geography and Environment
- Humanities
- Politics and International Studies
- Social and Policy Studies

Our areas of research
We have an excellent international reputation for our research across different areas of physical and human geography. In human geography some of the key themes our original research explores include migration, cities, education, and geographies of children, youth and families. In physical geography our research covers a wide range of cutting-edge topics including understanding and managing environmental change, investigating extreme climate events and their societal impacts, and the relationship between climate, water and energy.

We are currently leading a range of exciting research projects funded by major international research bodies and the UK Government that sit at the interface of physical and human geography to tackle real world global challenges.

Doctoral Training Partnership (DTP)
Geography and Environment is part of the Central England NERC Training Alliance DTP in partnership with the Universities of Birmingham, Leicester, Warwick, Cranfield, Open University, and the National Centre for Earth Observation, National Centre for Atmospheric Sciences, Centre for Ecology and Hydrology, and British Geological Survey. It provides three and a half years of PhD study with a framework of additional training, personal and professional development.

Taught programmes

Childhood, Youth and Social Policy

MA

Full-time length: 1 year
Part-time length: 2 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in geography or other social sciences/humanities discipline.

Fees: UK: £9,700; International: £19,950

Programme overview
Our Childhood, Youth and Social Policy MA is a multi-disciplinary programme that explores children and young people’s lives in diverse contexts and related social policy debates.

The programme critically examines current advanced research on children, young people and families with reference to relevant theories and concepts in human geography and the wider social sciences.

The MA will develop your understanding of the key concepts and theorisations of childhood and youth, as well as enhance your knowledge on children and young people’s lives across the Global North and South. This programme will also help develop your skills in a range of research methods, especially those relevant to the study of childhood and youth and attentive to young people’s ‘voice’.

Modules
Modules studied may include: Geographies of Children, Youth and Families; Children, Young People and Social Policy; Doing Research with Young People in their Socio-Spatial Contexts; Understanding Social Policy Research; Research Design and Practice; and a dissertation in Childhood, Youth and Social Policy.

How you will be assessed
You will be assessed by coursework essays, reports, presentations and a dissertation on an agreed topic.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study and group work.

Career prospects
As this is a new programme, graduate destinations are not yet available. However, this degree is suitable for those interested in research and consultancy, as well as policy roles related to children, youth and families.

Environmental Monitoring, Research and Management

MSc

Full-time length: 1 year
Part-time length: 2 years

Entry requirements: An honours degree (good 2:2 or 55% or above) or equivalent international qualification in geography or other science/engineering discipline.

Fees: UK: £9,700; International: £19,950

Programme overview
Our Environmental Monitoring, Research and Management MSc programme focuses on the practical skills required for successful and sustainable environmental management and research.

The programme focuses on the dynamic nature of biological and physical environmental systems and through field, laboratory and analytical work, it teaches the practical and analytical techniques to assess and manage dynamic environmental systems. It emphasises the practical challenge of measuring, analysing and evaluating a wide range of data for environmental problem-solving and management.

We are located inside a state-of-the-art research and teaching facility, complete with a river science laboratory, geospatial laboratory and metrological and hydrological field stations. The campus also has a 16-hectare research forest comprised of ancient and semi-natural woodland.

Modules
Modules studied may cover topics including: Research Design and Professional Practice in Environmental Management; Tools for River Research and Management; Hydroclimatological Monitoring and Modelling; Geospatial Risk Modelling for Management; GIS for Environmental Management; Lake Research and Management; Research-Informed Environmental Management; Environmental Monitoring of Wind; and a dissertation.

How you will be assessed
You will be assessed by coursework, essays and reports, and a dissertation on an agreed topic.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and field trips.

Career prospects
Recent graduates have gone on to work for Eco-Fuels, the Environmental Agency, IDP, RBS Groundworks and the RPS Group or onto UK and international PhD programmes.

Graduate job titles include Quality Tester, Environmental Monitoring Assistant, Environmental Project Manager, Project Consultant and Graduate Modeller.
International Financial and Political Relations

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: An honours degree (good 2.2 or above) or equivalent international qualification in geography or other social sciences/humanities discipline.

Fees: UK: £9,700 International: £19,950

Programme overview
Our International Financial and Political Relations MSc explores the intersection of finance, politics and international relations by examining the changing nature of financial systems, International Financial Centres (IFCs), banking and regulation and issues of governance.

The programme addresses the need for qualified specialists with applied knowledge of the increasing globalisation of financial and political networks, and in particular of global strategy and innovation in financial corporations.

You will develop an understanding of processes of contemporary globalisation in relation to geographies of finance; an understanding of the relationship between financial systems, banking and regulation, and issues of governance; a detailed appreciation of the working of banking and financial markets and International Financial Centres; and an awareness of the way forms of governance shape the political economy.

The MSc is an ideal multi-disciplinary grounding to inform business and policy practice or to pursue doctoral research in the social sciences.

Modules
Modules studied may include: Financial Globalisation; Critical Perspectives on the Global Financial System: Key Debates and Issues; Comparative Foreign Policy: Issues and Cases; International Politics: Issues and Policies; Governing Crises; Research Design and Practice; and a dissertation.

How you will be assessed
You will be assessed by exams, coursework, class presentations and a dissertation on an agreed topic.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study and group work.

Career prospects
Recent graduates have gone on to work for Gain Capital, IMG, Ipsos Mori, JP Morgan, Royal Bank of Scotland, Ernst & Young, IAB and the National Audit Office.

Graduate job titles include Financial Analyst, Currency Consultant, Risk Manager, Investment Banker, Portfolio Manager, Investment Manager, and Tax Consultant.

“My advice for future students would be to try everything and don’t be afraid to ask for help. The lecturers here are incredibly friendly and only want the best for their students, so if you need help or support, just ask.”
The term ‘humanities’ is concerned with the academic study, critique and interpretation of humanistic content in societies and cultures in a broad range of disciplines valuing creative, innovative thinking and its practices in oral, written and visual communication.

At Loughborough the emphasis is on English and American literature, language and linguistics, and modern and contemporary art theory, art practice and visual culture. Our research areas share the conviction that analytical and critical methods of enquiry facilitate understanding of the human condition, and its shared attributes and differences.

Although separate from the natural and social sciences, humanities values share common ground with these branches of knowledge, and we value interdisciplinary research and pedagogies across the School of Social Sciences and Humanities and with other Loughborough schools.

Sophie-Louise
PhD English (Creative Writing)

“The skills that I will leave Loughborough with are some that will have a lasting effect on my life and see me through a successful career in an industry that I have an overwhelming passion for.”

Our programmes
Research opportunities PhD p112

lboro.ac.uk/pg/humanities
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: An honours degree (2:1 or above) or equivalent international qualification in a related subject.

Fees: UK: see website International: £18,100

The School of Social Sciences and Humanities has five main research areas:
- Communication and Media
- Geography and Environment
- Humanities
- Politics and International Studies
- Social and Policy Studies

Humanities has two main disciplinary areas that share the values traditionally constituting Humanities studies: English with specialization, and Art History and Visual Culture with specialisms. Humanities also houses a Centre for Doctoral Training: Feminism, Sexual Politics and Visual Culture.

In a period of instability and rapid change characterising the early 21st century, we seek to find new ways of connecting humanities research with the problems facing society while affirming shared human experiences. We favour interdisciplinary research projects that reach across the units in the School of Social Sciences and Humanities, and we also collaborate with research units in other Schools.

Our areas of research

The following list constitutes our research areas and research groups.

**Art History and Visual Culture**

This staff group links critical thinking, informed histories, and the praxis of making across the visual arts. We have a broad range of approaches to the study of visual and material cultures from around the world. Our research transcends traditional disciplinary boundaries and challenges familiar historical and theoretical frameworks. Our research encompasses European art and design from the 18th century to the present; Global contemporary art, visual culture, and politics; feminist art history and theory and gender studies; art markets, collecting, and critical heritage; and fashion theory. We support both the theoretical PhD thesis and the practice-led PhD.

**Arts in the Public Sphere**

The Public Sphere research group aims to explore the historical and contemporary relation between the artist as producer to a variety of public spheres, to investigate how contemporary social groups understand matters of 'public interest', and to assess how the idea of the 'common good' is approached and represented in the arts and humanities.

**Communication and Media Studies**

This group uses multidisciplinary approaches to analyse media and the communications industries and to provide advice to practitioners and policy makers. Comparative perspectives feature strongly in much of its work and members are internationally renowned for their research and publications.

**Cultural Currents 1870–1930**

Cultural Currents 1870–1930 researches the literature and culture of the late-Victorian and Modernist periods. Its work encompasses literary and cultural criticism, textual editing, digital scholarship, and publishing history, with interdisciplinary links to visual art, politics, history, and gender and sexuality studies.

**Digital Humanities**

DH@lboro is an interdisciplinary research group in the digital humanities, providing a regular forum for discussion and knowledge exchange on all aspects of digital humanities, digital media and digital environments.

**Early–Modern Culture**

The research group is a forum that develops projects, and supports researchers, whether established or early career, where the specialism is an aspect of Early Modern culture or literature.

**Feminism, Sexual Politics and Visual Culture**

This Centre for Doctoral Training (CDT) was established in 2018 and is supported by staff whose ambition is to establish a continuing PhD programme, based on innovative feminist pedagogic principles that break the boundaries of art and of academia disciplinary barriers. Working at the intersection of feminism and visual culture, research areas include, but are not limited to critical race theory; activist interventions; curation and arts’ canons; masculinities; post–humanisms; and queer theory. Further, ‘visual culture’ or ‘arts’ to us is inclusive of all practices where visuality is significant, including performative and written modes. Academically this is a radically integrative standpoint: the transdisciplinary staff team have been brought together by a notable coherence of theoretical, practical, and academic commitment to this moment in sexual politics. We have developed an overall intersectional feminist framework while incorporating both theory and practice and at the same time promoting trans-disciplinary and lateral working.

**Gendered Lives**

Gendered Lives is a multi-disciplinary research group which has been established to bring together those researching gender, how it is experienced, and how it is represented in personal documents and cultural objects.

**Modern and Contemporary Literature and Culture**

From fan fiction to YouTube, we explore how the contemporary era is changing the way we read, write and talk about literature. This multi-disciplinary research group explores cutting-edge practices in, and debates about, collecting, marketing, and exhibiting works of art and cultural property.

**Museums, Markets and Critical Heritage**

The Museums, Markets, and Critical Heritage research group is a forum for the exchange of ideas about art markets, exhibition histories, museums, and public and private collecting practices. Its research and events are open to individuals from all disciplinary backgrounds, and we aim to bring together scholars whose interests span diverse geographies and time periods. The group seeks to build research collaborations within and beyond Loughborough University, to share knowledge, and to develop policies that impact on the cultural landscape. We aim to promote innovative thinking about the future of public and private collecting, access to the art market, the stewardship of cultural property, and the relationship between museums and their stakeholders.

**Politicized Practice**

This group starts from a shared question rather than a specific disciplinary context, asking, how can contemporary art contribute to social and political change? Our aim is to act on and intervene in the political conditions of specific disciplines, for example, visual culture’s relationship to art history, anti-art ideas in relation to Fine Art practice and social graphics’ relationship to capital. ‘Critical practice’ denotes the various modernist projects in which a medium determines its own limits and specialisms through the use of its own methods and concepts; for example, where painting critiques painting, and thought critiques thought. ‘Politicized practice’, therefore, enables us to engage in a more productive collection of interdisciplinary and cross-disciplinary dialogues and debates.
The Department of Materials has contributed towards the success of Loughborough University’s teaching and research excellence for over half a century.

Materials knowledge and skills are in demand across many industry sectors, and therefore offer a wide range of prospects for graduates. Industry relevance is a priority to us and therefore much of our research work and master’s degree projects are supported by scientists and engineers from industry contributing to our modules.

Research with impact
Our department has led advancements in the field through teaching, research and enterprise activities across seven key areas: energy materials, nano materials, biomaterials, processing, surface engineering, materials modelling, and sustainability. We interact with both industrial and academic researchers around the world.

These areas also provide the focus for the research and development of new and improved materials and processing techniques which are helping to make a real difference in the world around us and to the way we live. This includes the study of: nuclear and energy storage materials; materials performance under extreme conditions; healthcare materials, advanced polymers; and nano particle processing to name a few.

World-class facilities
Our postgraduate students have access to our outstanding teaching and learning facilities, which have benefited from a £25 million investment. Facilities include a refurbished and extended polymer processing and pilot plant area and the Loughborough Materials Characterisation Centre (LMCC), one of the best suites of instruments of its kind in Europe. Students also benefit from the £17 million state-of-the-art STEMLab, offering advanced and up-to-date laboratories for students across a range of disciplines.

Accreditation
Teaching and research are shaped by industry and partner feedback, which ensures that our graduates are well prepared for the ever-changing global jobs market. Accreditation by the Institute of Materials, Minerals and Mining (IOM3) facilitates progression towards professional chartered status (CEng) after a period of relevant graduate-level employment.

Equality and diversity in STEM
The School is committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.

Ollie
PhD student

"The University has a friendly atmosphere and a great campus, and the Department is also ranked very highly for its academic and research prowess. The culmination of these points made it the logical place to continue my studies."

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Materials

Our programmes

Research opportunities PhD
Advanced Materials Science and Engineering MSc
Polymer Science and Engineering MSc

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Materials
Our research activities focus on today’s global challenges, including sustainability, nanomaterials, composites, and processing. We adopt a highly disciplinary approach to our research and interact with both industrial and academic researchers around the world.

Benefiting from the expertise and considerable experience of our staff, our thriving community of postgraduate research students are provided with an intellectually challenging and rewarding experience. As a student, you will have the opportunity to not only become an independent researcher, but also to create a lasting network of peers. You will be assigned a supervisory team who, together with the Director of Doctoral Programmes, will provide strong academic and pastoral support. Training and departmental seminars will help you to develop your skills and you will be expected to present your own research papers. You will be provided with your own desk and computer in a shared departmental office with access to library, IT and state-of-the-art laboratory facilities.

Our research is supported by a range of first-class facilities, which have been designed to help you throughout your studies and fully equip you for your future endeavours. You will have access to state-of-the-art equipment for use in materials synthesis, processing and characterisation. Some of the facilities available in these laboratories include electron microscopy and surface analysis, which grow spontaneously and can cause electric components to short circuit and, in many cases, fail completely. These whiskers cause a significant threat to the reliability of mobile devices, medical equipment, defence and security hardware, and even satellites. Through our research, we identified the correct chemical formats and physical properties that reduce the emergence of the whiskers to create a protective coating.

Advanced Materials

High-value products often require parts which are challenging to manufacture, due to their scale, complexity or precision; or which must be manufactured from high-performance materials capable of dealing with harsh or challenging operating environments. Through our research, we investigate materials to support the most challenging of applications, from high-performance ceramics, to advanced surface modification processes.

Among the materials we are working with are composites and nanocomposites, polymers and adhesives, steels and alloys, metallic glasses and biomaterials. Our investigation into modern materials allows us to predict their properties, performance, reliability and structural integrity, as well as the components and structures made from them, making them safer, more reliable and cost-effective for everyday use.

For example, we are currently researching ceramics for biomedical use and the microstructural change of steel when subjected to high temperatures, but our research also involves understanding the damage of materials to make them safer for everyone.

Soft Matter

Research here deals with a vast array of macromolecules, from their synthesis to their interactions at a microscopic level. It involves squishy materials such as polymers, liquid crystals, foams, gels, and colloids. We use techniques such as optical manipulation, and light, X-ray and neutron scattering to understand how the macroscopic physical properties of these soft materials work and how they can be applied to everyday life. An ongoing research area is to develop polymer composite wind turbine blades which are ‘stealthy’, so not detected by radar, which makes air traffic over these structures safer.

Taught programmes

Advanced Materials Science and Engineering

Full-time length: 1 year
Part-time length: 2–5 years
Entry requirements: A 2.1 honours degree or equivalent international qualification in a science or engineering subject.

Fees:
UK: £11,400
International: £25,450

Programme overview
Our Polymer Science and Engineering MSc programme has gained an international reputation as one of the most comprehensive and in-depth programmes specialising in this area. Taught by a team of international experts, this programme will give you a rich understanding of the structures, processing, properties, characterisation and applications of polymers.

This multidisciplinary programme covers the latest engineering of polymer materials, including aspects of nanotechnology and biomaterials. Helping you reach the cutting edge of polymer research, this course is supported by state-of-the-art equipment, including those within our unique polymer processing plant and polymer synthesis laboratory, our world-leading Loughborough Materials Characterisation Centre (LMCC) and £17 million STEMlab facility.

Modules

Core study areas may include: Polymer Science; Advanced Processing of Polymers; Advanced Materials Characterisation; Research Methods; Group Design Project, Colloid Science and Engineering, and the MSc dissertation project. Optional study areas may include: Advances in Nanomaterials and Composites; Clean Energy Materials and Sustainability; Materials Modelling.

How you will be assessed
You will be assessed by a combination of coursework, dissertation, exams, group work, laboratory reports, presentations and a group project.

How you will study
You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars and supervisions.

Career prospects

Plastics and polymers is a huge global industry and our graduates are highly sought after. Many go on to work within roles such as process and technology engineering, packaging, recycling and sustainability development, research, technical support and sales across a diverse range of companies, such as BEWG such as Boeing, Morgan Advanced Materials and Intel Corp, Nestlé, P&G, REC Solar Energy and Unilever.

Many of our students continue their studies with us, joining our thriving community of PhD researchers engaged in materials projects of real-world significance.
Loughborough’s Department of Mathematical Sciences is committed to driving forward innovation across the teaching and research of both pure and applied mathematics.

The Department attracts staff and students from all over the world, making it a diverse and stimulating environment in which to study.

Our taught postgraduate programmes aim to cater for students who do not necessarily have a first degree in single honours mathematics, giving a strong grounding in areas that are relevant to employment in a large number of sectors.

The programmes reflect our strengths as a department and can offer established collaborative training ventures with industrial partners.

The Department of Mathematical Sciences is part of the London Mathematical Society’s Good Practice Scheme, which supports mathematics departments interested in embedding equal opportunities for women within their working practices.

Excellent employment prospects
Graduates of our MSc programmes go on to work in diverse roles within a wide variety of organisations, including BAE Systems, Citigroup, Experian, GE Aviation, Mercedes Benz, Nuclear Labs USA, and PwC.

Our research
Active in high-quality research across the broad spectrum of mathematics, we have an international reputation, with four-fifths of research rated internationally leading (or better) in the Research Excellence Framework (REF) 2014. Our research themes include dynamical systems, geometry and mathematical physics, global analysis and PDEs, linear and nonlinear waves, mathematical modelling, statistics, and stochastic analysis.

Equality and diversity in STEM
The School of Science is committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: An honours degree (high 2:1 or above) or equivalent international qualification in mathematics.

Fees: UK: see website International: £18,100

Loughborough’s Department of Mathematical Sciences is committed to driving forward innovation across the teaching and research of both pure and applied mathematics. The Department attracts staff and students from all over the world, making it a diverse and stimulating environment in which to study. Active in high-quality research across the broad spectrum of mathematics, the Department has an excellent international reputation. Research themes within the Department include analysis, dynamical systems, geometry and mathematical physics, linear and nonlinear waves, mathematical modelling, statistics, and stochastic analysis.

As a PhD student in the Department of Mathematical Sciences you will be part of a vibrant community of researchers from around the world. The Department hosts regular seminar series and colloquia, as well as international conferences and workshops. As part of the School of Science, staff and PhD students contribute to our interdisciplinary research centres:

- Centre for Geometry and Applications
- Centre for Imaging Science
- Interdisciplinary Centre for Mathematical Modelling
- Centre for Mathematical Modelling and Computation

Our areas of research

Analysis and PDEs

The research interests of the group include analysis of PDEs, including hyperbolic equations and systems with multiplicities, microlocal, spectral and harmonic analysis, eigenvalue estimates for Dirac and Schrödinger type operators, inverse spectral transform method for integrable PDEs, applications to approximation theory, as well as other topics.

Dynamical Systems

This group studies a wide range of aspects of dynamical systems theory, such as Hamiltonian and dissipative dynamical systems, dynamics and quantum, systems, dynamics of multi-scale systems, ergodic theory, random matrix theory, and bifurcation theory.

Geometry and Mathematical Physics

The research of the group covers a broad range of topics in geometry and related areas of mathematical physics, including the theory of both classical and quantum integrable systems. Another research focus is algebraic geometry, in particular, birational geometry and mirror symmetry.

Linear and Nonlinear Waves

The group’s interests are in wave motion in a variety of physical situations including geophysical fluid dynamics, water waves, solid mechanics, electromagnetism and acoustics. The group develop and apply exact, numerical, asymptotic and perturbation techniques to pursue research on linear and nonlinear waves with a focus on solitary waves and soliton theory, stochastic wave systems, wave generation, and diffusion and scattering by obstacles.

Mathematical Modelling

Members of the group apply a variety of techniques from applied mathematics to diverse problems in medicine, biology, fluid dynamics, materials and soft matter science. The biological systems studied range from intracellular processes to those at the scale of organisms and populations. The fluid flows studied range from environmental buoyancy-driven flows to technologically important micro- and nano-fluidic flows.

Statistics

The Statistics group is involved in methodological research in contemporary issues in mathematical and computational statistics, as well as in making diverse applications to the natural, biological and social sciences, such as engineering, medical imaging, materials science, ecology, testing theory, biostatistics, etc.

Stochastic Analysis

Stochastic analysis has been a main research area in probability theory in recent years and the trend is still increasing. In our group, the research topics include stochastic analysis, in particular interactions with analysis; stochastic methods in (non)linear partial differential equations and mathematical physics; stochastic dynamical systems; stochastic differential equations; stochastic partial differential equations; infinite-dimensional analysis; stochastic analysis on geometric spaces; Markov processes and Dirichlet forms; quantum stochastic analysis; rough path; ergodic theory; and mathematics of finance.

Taught programmes

Industrial Mathematical Modelling

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: 2.1 honours degree or equivalent international qualification in a subject with a high mathematical content.

Fees: UK: £9,700 International: £19,950

Programme overview

Our Industrial Mathematical Modelling MSc will give you the skills needed to succeed within finance or to pursue a research career in stochastic analysis, financial mathematics and other relevant areas. It will provide you with the strong mathematical skills, computational techniques and finance background necessary to work in the finance sector but may also open up careers in investment banking, hedge funds, insurance companies and the finance departments of large corporations.

You will undertake core modules in stochastic analysis and measure theory, while also choosing optional modules covering wide-ranging topics of interest, including corporate finance, functional analysis and asset management.

You will benefit from our computing laboratory, with a dedicated IT team to help you with any computing queries, and our £4 million refurbished student building, which has a spacious student activity area and dedicated state-of-the-art resources.

Modules

Compulsory modules may include: Brownian Motion; Stochastic Models in Finance; Stochastic Calculus and Theory of Stochastic Pricing; Computational Methods in Finance and a research project.

Optional modules may include: Programming and Numerical Methods; Regular and Chaotic Dynamics; Financial Economics; Functional Analysis; Elements of PDEs; Lie Groups and Lie Algebras; Static and Dynamic Optimisation; and Fluid Mechanics.

A highlight of this industry-focused programme is your summer project, which is often carried out in a local company.

How you will be assessed

You will be assessed by a combination of exams, reports, individual and group projects, and presentations. You will spend approximately 14 weeks over the summer working on an individual project, either in an industrial or engineering company, or at the University.

How you will study

You will study through a range of lectures, seminars, tutorials, group work and individual study.

Career prospects

Recent graduates have progressed to roles such as mathematicians, software engineers, data scientists and lecturers in higher education. Some graduates have gone on to study at PhD level.

Mathematical Finance

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: 2.1 honours degree or equivalent international qualification in a subject with a high mathematical content.

Fees: UK: £9,700 International: £19,950

Programme overview

Our Mathematical Finance MSc will give you the skills needed to succeed within finance or to pursue a research career in stochastic analysis, financial mathematics and other relevant areas. It will provide you with the strong mathematical skills, computational techniques and finance background necessary to work in the finance sector but may also open up careers in investment banking, hedge funds, insurance companies and the finance departments of large corporations.

You will undertake core modules in stochastic analysis and measure theory, while also choosing optional modules covering wide-ranging topics of interest, including corporate finance, functional analysis and asset management.

You will benefit from our computing laboratory, with a dedicated IT team to help you with any computing queries, and our £4 million refurbished student building, which has a spacious student activity area and dedicated state-of-the-art resources.

Modules

Compulsory modules may include: Brownian Motion; Stochastic Models in Finance; Stochastic Calculus and Theory of Stochastic Pricing; Computational Methods in Finance and a research project.

Optional modules may include: Programming and Numerical Methods; Regular and Chaotic Dynamics; Financial Economics; Functional Analysis; Elements of PDEs; Lie Groups and Lie Algebras; Static and Dynamic Optimisation; Asset Management and Derivatives; and Corporate Finance.

You will spend 14 weeks at the end of the programme devoted to an individual project. Some projects are supervised in collaboration with financial companies and partners.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, seminars, group work and individual study.

Career prospects

Recent graduate destinations include: Business Analyst (Deloitte), Finance Analyst (HSBC), Data Analyst (JPSS), Risk Analyst (JPSS).
The Mathematics Education Centre is one of the largest mathematics education research groups in the UK – with an international reputation for the research into and practice of the learning and teaching of mathematics and statistics.

Our research explores the fundamental process involved in learning mathematics, as well as the design and evaluation of innovative pedagogy. Our staff enjoy collaborations and connections with other specialists across the country and run monthly research workshops, attracting academics and researchers across the region.

In the latest Research Excellence Framework (REF), 85% of the Centre’s research activity was judged to be ‘world-leading’ or ‘internationally excellent’, putting its research quality amongst the highest of all education departments in the UK.

Academics from the Mathematics Education Centre have won national and international awards for their research and research-informed teaching practices.

Our facilities are set within the refurbished Schofield and Wavy Top Buildings at the heart of campus and include the Schofield Cognition Lab, a child-friendly laboratory for conducting experimental or observational studies with young children, and several eye-movement labs equipped with state-of-the-art equipment.

In 2019 the Mathematics Education Centre was awarded £6.6 million by Research England to create a new Centre for Mathematical Cognition; as a result Loughborough now hosts one of the largest groups of mathematical cognition researchers in the world, following this expansion.

We are a diverse community of around 30 staff, comprising academic staff, project staff, and visiting fellows, and have a vibrant group of postgraduate research students.

Equality and diversity in STEM
The School of Science is committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunity for all.
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in mathematics, education, psychology or a related discipline. It would be an advantage in some cases to have an MA/MSc in mathematics education, educational/psychological research methods or in a related discipline.

Fees: UK: see website International: £18,100

How to apply
Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus. All applicants must submit the following to accompany their application:

• a one-page CV summarising relevant experience and skills
• a one-page cover letter describing their reasons for wishing to undertake research in their chosen area and the personal qualities they will bring
• a two-page essay on one or more issues affecting teaching/learning in mathematics and related to your proposed area of research. This should be a specially constructed piece of writing, making reference to relevant academic literature.

For self-funded projects or those funded by third-party sponsors, in addition to the above requirements, please indicate on your application the area in which you would like to study and the person with whom you would like to work, if appropriate. You are strongly encouraged to contact this person ahead of making an application to discuss your interests and possible research topics.

Our areas of research
Mathematical Cognition
Mathematical cognition research focuses on understanding the processes by which students come to understand mathematical ideas, with a view to improving educational practice. Our researchers who are active in this area have a particular reputation for their work on numerical cognition and mathematical reasoning. In 2019 funding from Research England allowed us to establish a new Centre for Mathematical Cognition, with dedicated staff, refurbished labs and new research equipment. As a result Loughborough now hosts one of the largest mathematical cognition research groups in the world.

Notable recent projects in this area have studied the different roles of executive functions in procedural and conceptual aspects of mathematics across childhood and adolescence (funded by the ESRC and Royal Society), the role of children’s spontaneous attention to numerical aspects of the environment in their school mathematics achievement (ESRC) and expert/misconce differences in mathematical reading strategies (HEA, DfE and ESRC).

Educational Design and Evaluation
Our research on educational design and evaluation aims to design, develop and evaluate pedagogical interventions, based on a rigorous understanding of students’ learning processes. We research how mathematics tasks, lessons and curricula may be designed and implemented in classrooms in schools and colleges to support students’ learning of mathematics. We also contribute to debates across education about the ways in which evidence can and should inform practice.

Notable recent projects in this area have included a systematic evaluation of how much new information is provided by rigorous large-scale randomised controlled trials, of the type commissioned by the EEF and NCEE.

Higher Education Pedagogy
Loughborough has a long history of researching mathematics education at the university level. Colleagues who work in this area have expertise in a broad range of areas related to the analysis of teaching and learning of university mathematics, including different approaches to assessment, the measurement of conceptual understanding, mathematical reasoning development and expert mathematical practice.

Notable recent projects in this area have investigated the extent to which post-compulsory mathematical study develops general reasoning skills (funded by the Royal Society), and student difficulties at the transition to higher education (funded by HEFCE).

Doctoral Training Partnership (DTP)
The Mathematics Education Centre is proud to be part of the ESRC Midlands Graduate School DTP in partnership with Warwick, Nottingham, Birmingham, Aston and Leicester.

Taught programmes
Mathematics with Qualified Teacher Status (QTS)
PGCE/MSc with QTS
PGCE: 1 year full-time
MSc with QTS: 1 year full-time PGCE plus additional part-time modules

Entry requirements: A UK honours degree or equivalent international qualification, which has at least 50% mathematics. Degrees with less mathematics content may be considered. Please see website for full details.

Fees: PGCE: UK: £9,250 MSc with QTS: UK: £9,700

Programme overview
Our Mathematics with Qualified Teacher Status programme prepares future teachers to engage and motivate secondary school students to be mathematical thinkers, not just learners. The programme is practically based, with 24 weeks spent in our partner schools. University weeks have half a day on General Professional Studies and two full days on Mathematics Education. Work is set to be done on the remaining days of the week, which will feed in to the Mathematics Education sessions.

In accordance with current government requirements, all applicants must be interviewed to assess their potential for teaching before a place can be offered. Recent experience of working with young people would be valuable, as would having had at least three full days’ experience in a state secondary school, although these are not requirements.

Our PGCE has been judged in 2018 as ‘outstanding’ for the fourth time in a row and has excellent reports from external examiners.

Two additional modules can be taken after successful completion of the PGCE to progress and gain a full master’s degree.

Modules
For module information please see our website.

How you will be assessed
You will be assessed through a variety of methods, including in-school teaching, written assignments and a group presentation.

How you will study
You will study through a range of lectures, seminars, practical sessions and group work.

Career prospects
Our Mathematics with Qualified Teacher Status programme is ideal preparation for a career teaching mathematics. It is designed to develop the thinking behind your teaching, as well as the skills involved with being an excellent teacher of maths.
Our reputation for pioneering and topical research is built on a rich and successful history, with programmes dating back to 1909. By choosing Loughborough as your study destination you can draw upon the wealth of experience and expertise acquired throughout the school’s 100 years of excellence.

Research with impact
As one of the largest engineering schools in the UK, we lead in technological research and innovation, with extensive national and international connections to industry. The breadth of our research activity is captured in our seven themes, which are served with research activities from our research groups and a number of leading-edge research centres and institutes hosted by the School. We continuously feed this research into our teaching and programmes, providing you with an unrivalled educational experience.

World-class facilities
We recently invested over £70 million into developing the west side of campus, where the School is based. In particular we have improved our 15,000m² of high-tech teaching and laboratory facilities. They cater for various research areas including, additive manufacturing, automation, dynamics and control, electrical power generation, engineering design, engineering management, fluid mechanics, healthcare engineering, intelligent transport, internal combustion engines, manufacturing, materials, mechatronics, metrology, optical engineering, product design, radio communications, renewable energy and energy storage, robotics, sports technology, structural integrity, systems and thermodynamics.

Accreditation
Teaching and research are shaped by industry and partner feedback, which ensures our graduates are well prepared for the ever-changing global jobs market. Our courses have been accredited for several years, some as far back as 2003. In line with the Institution of Engineering and Technology (IET), Institution of Mechanical Engineers (IMechE) and Institution of Engineering Designers (IED)’s review process, our programmes are undergoing reaccreditation to ensure they continue to offer professional registration opportunities.

Equality and diversity in STEM
We are committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunities for all.
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline. A relevant master’s degree or industry experience is advantageous and for some research projects, may be mandatory.

 Fees: UK: see website International: £24,100

Loughborough is a top 10 rated university in England for research intensity recognised in the latest Research Excellence Framework (REF 2014). An outstanding 66% of the work of our academic staff was judged as ‘world-leading’ or ‘internationally excellent’ compared to a national average figure of 43%. It is home to centres for Doctoral Training in Embedded Intelligence (EI) and Regenerative Medicine, national hubs in Metrology and Photovoltaics and EPSRC Platform on Embedded Intelligent Systems for Manufacturing. The School is also in the top 100 in the world for mechanical, aeronautical and manufacturing engineering and best in the world for sports-related subjects (QS World Rankings 2013). Home to over 100 academics and more than 200 postgraduate research students, the School offers new doctoral researchers the opportunity to join a vibrant international community that works together to provide world-leading engineering solutions to today’s global challenges. With over £13 million per annum of live research activities funded by UK and EU research councils and some of the world’s most renowned engineering companies, the School provides leadership in research and innovation and an exceptional educational experience.

Our areas of research

Communications

We cover a wide range of activities in all aspects of modern communication systems including 5G networks. Particular strengths include antennas, signal processing, network security, mobile and wireless communications, Internet of Things, machine learning, metamaterials, bioacoustics, biomedical electronics and microwave measurements.

Control and Automation

Our research addresses the challenges and development of disruptive technologies and processes caused by the exciting evolutions that are taking place in engineering and manufacturing processing and products as a result of new concepts in digitalisation and Industry 4.0. This high impact multi-disciplinary research theme harnesses state-of-the-art AI machine learning, automation, advanced control systems, human-machine interaction, modelling-simulation, robotics and virtual/augmented reality techniques to meet extremely demanding application driven needs. The research is inspired by our strong collaboration across the aerospace, automotive and rail sectors including being an Airbus preferred research and technology university partner.

Dynamics and Thermofluids

This internationally recognised group works in the fields of dynamics, tribology, thermodynamics, combustion, heat transfer and fluid mechanics. Our research has a strong emphasis on the fundamentals and application of advanced computational modelling and optical diagnostic methods relevant to the automotive, engine, powertrain, power, environmental and medical industries. We have major partnerships with global companies and play a leading role in shaping government strategy.

Energy and Power

Energy engineering is a core strength of the School, exploring both conventional and renewable electricity generation; alternative energy vectors; electricity, heat storage and transmission; systems management; delivery and utilisation; and the generation and application of pulsed power and plasma systems.

High Value Manufacturing

We address next generation manufacturing processes, in bio-manufacturing, laser processing and additive manufacturing, as well as manufacturing technologies in automation, robotics and digital manufacturing, and organisation and sustainability.

Materials and Measurement

We undertake multi-disciplinary research into the response of advanced engineering materials, including biomaterials, to various types of external loading and environmental conditions. We are active in many areas of optics and laser technology, including high-power laser processing, chip-scale photonics and high-precision non-contact measurement of strain, shape and vibration.

Systems

Taking a multi-disciplinary approach, key strengths in world-leading research are exploited, enabling us to address the important grand challenges currently facing the world. Examples include sports technology, manufacturing ICT tools, design research, systems engineering and technology, operations management and human factors engineering. We work on understanding the interactions between humans and the systems they use, to optimise the output, both technologically and for the people involved and work closely with industry to get cutting-edge research implemented.

Taught programmes

Advanced Manufacturing Engineering and Management

MSc

Full-time length: 1 year

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

Fees: UK: £11,400 International: £25,450

Programme overview

This programme delivers a unique balance between manufacturing processes and management to prepare you for a successful career as a technologist or manager. The skills acquired will enhance your ability to meet the engineering, business and societal challenges of the rapidly changing global manufacturing markets. Thinking is informed by our world-leading manufacturing research, which is driven by close collaborations with industry. Graduates benefit from our industry informed modules and develop skills that enable them to deliver high-quality research with industry impact. The course has been accredited since 2005. In line with the IET, IMechE and IED’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

Modules

Modules studied may include: Innovation Process and Entrepreneurship in Engineering; Engineering for Sustainable Development; Manufacturing Processes and Automation; Introduction to Additive Manufacturing; Biological Manufacturing; Modelling Manufacturing Systems and Processes; Engineering Management and Business Studies; Lean and Agile Manufacture; and a major project.

How you will be assessed

You will be assessed by a combination of coursework, exams, presentations and a substantial project.

How you will study

You will study through a range of group work, independent study, lectures, practical sessions and workshops; seminars, tutorials and laboratory work. You will have access to high-tech laboratories, world-leading researchers, computer labs and some of the latest industry standard software.

Career prospects

Our graduates have gone on to work at companies including Caterpillar, K C Engineering, National Oilwell Varco and Siemens.

Electronic and Electrical Engineering

MSc

Full-time length: 1 year

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

Fees: UK: £11,400 International: £25,450

Programme overview

This programme has been developed in consultation with industry advisors and provides a thorough knowledge of the principles and techniques of this field, whilst having a strong emphasis on practical applications.

You will develop research skills through your individual research project, which is supported by our world-leading academics. You will acquire practical and theoretical skills that are relevant to industry.

You will be taught using industry standard packages such as Applied Wave Research’s Microwave Office, CST Microwave Studio and EMPIRE XPU, as well as, Altera, Cadence, Mentor Graphics and Xilinx; commercial programming tools; antenna anechoic chambers and microwave test equipment; VI visualisation systems; and state-of-the-art sports technology laboratories.

This course has been accredited since 2014. In line with the IET’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

Modules

Modules studied may include: Sensors and Actuators; Programming Multi/Many-Core Systems; Elements of Pulsed Power Technology; Digital Signal Processing; Communication Networks; Solar Power; Wind Power; Digital Signal Processing for Software Defined Radio; Mobile Network Technologies; Antennas; Engineering Applications; Radio Frequency and Microwave Integrated Circuit Design; and an individual research project.

How you will be assessed

You will be assessed by a combination of coursework, exams, laboratory reports and practical exams and a substantial project.

How you will study

You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars and tutorials.
Engineering Design

MSc

Full-time length: 1 year
Part-time length: 2–6 years (typically 3 years)

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

Fees: UK: £11,400  International: £25,450

Programme overview
Our Engineering Design MSc is a unique course that combines the aesthetics and form of industrial design with the engineering content of functionality, structural integrity and reliability. Our programme enables you to work effectively and successfully in an engineering design role, whether it concerns the design of products, processes or systems.

The programme is designed to meet the challenges of the rapidly changing global market – the availability of well-designed products, processes and systems is the foundation of successful commercial enterprises. You will develop the technical and transferable skills highly sought after by industry and academic research.

Throughout the programme a balance of theory and practice is applied to the solutions of real engineering design problems. All projects meet the product design requirements of one of our many co-operating companies.

This course has been accredited since 2006. In line with the IET, MechE and IED’s review processes, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

Modules
Modules studied may include: Innovation Process and Entrepreneurship in Engineering; Engineering for Sustainable Development; Computer Aided Engineering; Structural Analysis; Engineering Design Methods; Engineering Management and Business Studies; Sustainable Product Design; Product Design and Human Factors; and a major project.

How you will be assessed
You will be assessed by a combination of coursework, exams and a substantial project.

How you will study
You will study through a range of seminars, lectures, practical sessions and workshops, seminars and tutorials.

Career prospects
Graduates are fully qualified to take on various roles and have gone on to be Design and Project Engineers in various companies including: Chargebox, Jaguar Land Rover, JCB and Network Rail to name a few.

European Master’s in Renewable Energy

MSc

Full-time length: 15 months
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

Fees: Please see lboro.ac.uk/pg/meme

Programme overview
Our European Master’s in Renewable Energy MSc is a collaborative programme offered by nine leading European universities and is administered by the Association of European Renewable Energy Research Centres (EUREC).

You will be taught the latest advances in clean power developments and be equipped with the skills and knowledge to design and develop benign renewable energy technologies.

During the first semester you will study at Loughborough and will acquire a solid foundation in key renewable energy technologies. In the second semester, you will specialise in a chosen technology at a partner university, before completing a six-month research project in the third semester.

Modules
Semester one will be studied at Loughborough and modules studied may include: Solar Power; Introduction to Wind Turbine Technology; Bioenergy; and Water Power.

Semester two is undertaken at one of our partner universities and modules studied may include: Wind Energy (National Technical University of Athens); Grid Integration (University of Zaragoza); Photovoltaics (University of Northumbria); Solar Thermal (University of Perpignan); Ocean Energy (Instituto Superior Técnico Lisbon); or Sustainable Fuel Systems for Mobility (Hanse University of Applied Sciences).

How you will be assessed
Assessments at Loughborough during your first semester will include a combination of coursework and exams. Projects and placements studied in semester two may vary depending on the destination you choose.

How you will study
You will study through a range of seminars, lectures, tutorials, independent study and practical sessions.

Career prospects
Our graduates go on to work in renewable energy companies, consultancies, non-governmental organisations or go on to do a PhD. Some have now progressed to senior roles in renewable energy companies throughout Europe.

“The immense knowledge of the professors and lecturers involved is great: they are truly world-class. Every single one of them is driving their areas forward, which I find very inspiring and exciting!”

Fees:

Please see lboro.ac.uk/pg/meme
**Mechanical Engineering**

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Not available

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

**Fees:** UK: £11,400  
International: £25,450

**Programme overview**

This programme is designed to meet the challenges of the rapidly changing global market. It is aimed at graduates and engineering professionals wishing to develop advanced skills in engineering science, design and technology. It will broaden your mechanical engineering knowledge, introducing you to new applications and practices, enabling you to develop technical and transferable skills.

You will have access to our high-tech laboratories devoted to dynamics and control, electronics, fluid mechanics, materials, mechatronics, metrology, optical engineering and high-power lasers, and structural integrity.

Upon successful completion, you will be able to plan and monitor multi-disciplinary projects, appreciate the central role of design within engineering, demonstrate competence in using computer-based engineering techniques, analyse and understand complex engineering problems.

This course has been accredited since 2008. In line with the IET’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

**Modules**

Modules studied may include: 
- Innovation Process and Entrepreneurship in Engineering
- Engineering for Sustainable Development
- Computer Aided Engineering
- Structural Analysis
- Engineering Design Methods
- Experimental Mechanics
- Thermofluids
- Simulation of Advanced Materials and Processes
- and a major project.

**How you will be assessed**

You will be assessed through a combination of coursework, exams and substantial project.

**How you will study**

You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars and tutorials.

**Career prospects**

Our graduates have gone on to work for a variety of reputable companies including Airbus, BAE Systems, Caterpillar, Chicago Bridge and Iron and Jaguar Land Rover in Mechanical, Structural and Development Engineer roles.

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**Mobile Communications**

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Not available

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

**Fees:** UK: £11,400  
International: £25,450

**Programme overview**

Our Mobile Communications MSc will equip you with the skills and knowledge needed to design and develop the next generation of mobile communications and wireless systems.

As new technologies emerge in this ever-expanding field, our programme will equip you with the essential theory and practical skills to support your long-term career development.

You will benefit from being supported by our 5G Research Centre (5GRC), whose work focuses on the future of mobile communications. You will also benefit from recent investment in software, 3D printing suites, engineering machine workshops and electronics laboratory.

This course has been accredited since 2010. In line with the IET’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

**Modules**

Modules studied may include:  
- Digital Signal Processing
- Personal Radio Communications
- Information Theory and Coding
- Communication Channels
- Statistical Methods and Data Analysis
- Digital Signal Processing for Software Defined Radio
- Mobile Network Technologies
- Antennas
- and a project in mobile communications.

**How you will be assessed**

You will be assessed by a combination of coursework, exams, group work and a substantial project.

**How you will study**

You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars and tutorials.

**Career prospects**

Graduates have progressed into a range of roles including Research and Development and Design Engineers in various industries including aviation, automation and communication.

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**Renewable Energy Systems Technology (Full-time)**

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Not available

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

**Fees:** UK: £11,400  
International: £25,450

**Programme overview**

Our Renewable Energy Systems Technology MSc is designed to prepare you for a career in the rapidly expanding global renewable energy sector. It features practical, industry-focused content, delivered by our internationally renowned academics, together with industrial experts.

Each module is informed by our world-class research and the latest industry developments, ensuring the programme maintains relevance in this rapidly developing, global sector.

You will benefit from our sector-leading experimental and simulation laboratories for your project work and assignments, giving you a chance to work side-by-side with leading academics and researchers on industrially relevant problems.

This course has been accredited since 2003. In line with the IET’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

**Modules**

Modules studied may include:  
- Renewable Energy Technologies
- Economics and Policy
- Solar Power
- Introduction to Wind Turbine Technology
- Water Power
- Bioenergy
- Integration of Renewables
- Energy Storage
- Advanced Photovoltaics
- Wind Turbine Aerodynamics
- Data Analytics for Smart Energy Systems
- Energy System Investment and Risk
- and a project.

**How you will be assessed**

You will be assessed by a combination of coursework, exams, group work and a substantial project.

**How you will study**

You will study through a range of group work, independent study, lectures, practical sessions and workshops, field trips and tutorials.

**Career prospects**

Our graduates work world-wide for companies including First Utility, Mott MacDonald, NPower and Siemens to name a few, in roles such as Renewable Energy Consultants and Renewable Engineers.

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**Renewable Energy Systems Technology (Distance Learning)**

**MSc**

**Full-time length:** Not available  
**Part-time length:** 2-6 years (typically 3 years)

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

**Fees:** UK: £11,400  
International: £25,450

**Programme overview**

Based on our renowned full-time Renewable Energy Systems Technology MSc, this award-winning distance learning programme offers flexibility in terms of place, pace and learning mode and prepares you for a career in the rapidly expanding global renewable energy sector.

You will benefit from access to our world-class experimental and simulation laboratories for the duration of your studies.

Our Centre for Renewable Energy Systems Technology (CREST) is renowned for its innovative learning methods which have been designed to fit around your other commitments, whilst ensuring that you have the best possible learning experience. Our learning and teaching resources are available online at any time.

This course has been accredited since 2003. In line with the IET’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities.

**Modules**

Modules studied may include:  
- Renewable Energy Technologies
- Economics and Policy
- Solar Power
- Introduction to Wind Turbine Technology
- Water Power
- Bioenergy
- Integration of Renewables
- Energy Storage
- Advanced Photovoltaics
- Wind Turbine Aerodynamics
- Data Analytics for Smart Energy Systems
- Energy System Investment and Risk
- and a project.

**How you will be assessed**

You will be assessed by a combination of coursework, exams, group work and a substantial project.

**How you will study**

You will study through a range of live streamed and recorded lectures, tutorials, interactive computer-based simulations and virtual workshops.

**Career prospects**

Graduates are in high demand within sectors such as manufacturing, development of generation schemes, utilities, engineering consultancies, finance and local, regional and national government. Graduates have gone on to work for companies including Arup, DNV GL, E.ON, EDF Energy, Innogy Consulting, RES, RWE, SSE and Vestas to name a few.
Systems Engineering

MSc

Full-time length: 1 year
Part-time length: 3 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

Fees: UK: £11,400 International: £25,450

Programme overview

Systems Engineering is the transdisciplinary approach that integrates all disciplines to allow an innovation to be developed from a concept to a fully operational system. It considers business and technical needs to create a quality product that meets all requirements. Systems engineering is an essential tool in coping effectively with complexity in sectors as diverse as energy, transport, defence, telecommunications, health and infrastructure.

This course has been accredited since 2011. In line with the IET’s review process, the programme is undergoing reaccreditation to ensure it continues to offer professional registration opportunities. Additionally, it is aligned with the International Council on Systems Engineering’s competency framework.

Modules

Modules studied may include: Applied Systems Thinking; Systems Architecture; Sensors and Actuators for Control; Systems Design; Validation and Verification; Understanding Complexity; Modelling Simulation and Visualisation for Engineering; Engineering and Management of Capability; Innovation and Entrepreneurship in Engineering, Holistic Engineering; Group Systems Project; and an individual project.

Additionally, one specialist module may be substituted from another MSc: Engineering for Sustainable Development; Manufacturing Processes Automation; Additive Manufacturing; Computer Aided Engineering; Engineering Design Methods; Digital Signal Processing; Communication Networks; Lean and Agile Manufacture or Telecommunications Network Security.

How you will be assessed

You will be assessed by a combination of coursework, dissertation, exams, group work and a substantial project.

How you will study

You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars and tutorials.

Career prospects

There is global demand for Systems Engineering graduates in a range of industries, at companies such as Rolls Royce, BAE Systems, Easy Jet and Jaguar Land Rover to name a few, in roles such as Graduate Engineer, Systems Engineer, Software Engineer and Functional Safety Engineer.

Telecommunications Engineering

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline. Applicants with qualifications slightly below and/or professional experience will be considered.

Fees: UK: £11,400 International: £25,450

Programme overview

Our Telecommunications Engineering MSc provides a thorough understanding of modern and future telecommunication systems including 4G and 5G technologies, as well as the opportunity to develop advanced practical and theoretical knowledge, equipping you with the skills and experience needed to design and develop the next generation of telecommunication systems.

As fresh technologies emerge in this ever-expanding field, you will possess the essential theory and insights needed to support a career in telecommunications. You will undertake projects as part of your course, utilising performance measurement equipment and a testbed to test the validity of your systems and detect possible network abuse.

You will have access to the communications laboratory equipped with software defined radios, drones and professional network measurement equipment, as well as the radio frequency anechoic chamber for testing antennas.

Modules

Modules studied may include: Digital Signal Processing; Communication Networks; Information Theory and Coding; Telecommunications Network Security; Advanced Telecommunications Techniques; Applied Network Monitoring and Security; Personal Radio Communications; Statistical Methods and Data Analysis; Antennas; Digital Signal Processing for Software Defined Radio; and a telecommunications project.

How you will be assessed

You will be assessed by a combination of coursework, exams, group work and a substantial project.

How you will study

You will study through a range of group work, independent study, lectures, practical sessions and workshops, seminars and tutorials.

Career prospects

Graduates of the Telecommunications Engineering MSc are sought after in communication engineering industries from software/firmware to signal processing in senior technical and managerial roles.
Excellent facilities and our international community of staff and students combine to make Loughborough University an ideal choice for postgraduate study in physics.

Advancing knowledge across the breadth of the physical sciences, the Department is actively engaged with industry and cutting-edge research.

Our postgraduate students benefit from state-of-the-art physics laboratories within the University’s £17 million STEMLab and the newly refurbished Sir David Davies building. We feature a range of advanced experimental facilities, including thin film growth (pulsed laser deposition and sputtering), 2D materials transfer system, atomic force microscopy, Raman scattering, X-ray diffraction, low temperature (0.3K) and high magnetic field (9T) physical property measurement system, ferromagnetic resonance set up and a departmental class 1000 clean room for micro fabrication. Additionally, students can access facilities at the Loughborough Materials Characterisation Centre lboro.ac.uk/research/lmcc.

Research with impact
Impactful research is central to the culture of our department. Our research focuses on condensed matter and quantum physics, and many of our staff are actively engaged in both theoretical and applied research, industry projects and collaborations with Loughborough’s science and engineering departments, and with partners across the world.

Our two research-focused MSc programmes combine taught modules with the opportunity to develop research skills and work on an extensive supervised research project alongside experts in the field.

Equality and diversity in STEM
The School of Science is committed to creating a diverse and inclusive working, learning, social and living environment that enables students to achieve their potential and which celebrates and encourages diversity. Our aim is to maximise opportunity for all.

Our programmes

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lboro.ac.uk/pg/physics
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in physics or a related discipline.

Fees: UK: see website International: £24,100

We are a research-intensive physics department, best known for our leading contribution to diverse fields of condensed matter physics. Building on our traditional strengths in fundamental physics we address the UK Grand Challenges. Our most significant contributions and innovations are in the areas of 2D and van der Waals materials, novel devices for energy harvesting, spintronics, high-frequency electronics, novel computing approaches and artificial intelligence.

Supporting you

You will be able to consult departmental academic staff regarding your specific research interests and assigned supervisors with expertise in the selected research area, at the start of your PhD. We have a vibrant international community of PhD researchers with whom you can interact regularly and we organise regular departmental seminars in topics of current interest which will help you to build an excellent network during your research. Furthermore, we offer bespoke training courses to support your research and additionally, you can also develop your skills further by supporting undergraduate teaching in the department.

How to apply

Projects which have funding attached are advertised on our online prospectus. For self-funded projects or those funded by third-party sponsors, you should give an indication of your general field of interest but are not advised to provide a detailed proposal.

Our areas of research

Novel Materials
Research in this area covers novel materials such as superconductors, graphene, and topological insulators, high temperature superconductivity, Weyl metals, magnetic and spintronic materials and the engineering and design of quantum devices.

Quantum and Nano-engineering and Design
The interdisciplinary Quantum Systems Engineering Research Group brings together a unique team from diverse backgrounds including scientists, quantum technologists, engineers and end-users. Research in this area ranges from fundamental ideas in quantum mechanics and quantum behaviour in condensed matter to applications to quantum technology.

High Frequency Solid State Physics and Engineering
Research in this area is dedicated to the development of devices, such as sources, sensors and amplifiers, based on novel semi- and super-conducting materials for high-frequency (GHz/THz) applications.

Physics of Complexity
Research in this area covers econophysics, biophysics, Brownian motion, sociophysics and social networks, and physical principles of unconventional computing. The Department has internationally leading research groups and infrastructure, supporting the research in all presented areas.

Our research groups are flexible and strongly engage in enhanced cross-communication and collaboration between the five Departments of the School, namely, between Physics, Chemistry, Mathematical Sciences, Computer Science and the Mathematics Education Centre. We have several Interdisciplinary Research Centres involving staff and PhD students from all five Science departments engaging interdisciplinary research:
• Centre for Imaging Science
• Centre for the Science of Materials
• Centre for Geometry and Applications
• Centre for Analytical Science
• Interdisciplinary Centre for Mathematical Modelling
• Interdisciplinary Science Centre from Laboratory to Fabrication (Lab2Fab)

Taught programmes

Advanced Physics

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:2 honours degree or equivalent international qualification in science or engineering, or appropriate professional experience.

Fees: UK: £11,400 International: £25,450

Programme overview

Our Advanced Physics MSc will equip you with the key skills needed for employment in industry, public service or academic research.

The programme reflects the research strengths and specialisms of Loughborough’s Department of Physics, combining compulsory modules which may include superconductivity and nanoscience with options that include quantum computing and solid-state physics. The majority of the programme is devoted to research work, in which you will learn research methods appropriate to a particular area of physics, and then plan and execute a project, carrying out original research under the guidance of an expert in the field.

Modules

Compulsory modules may include: Mathematical Methods for Interdisciplinary Sciences; Superconductivity and Nanoscience; Research Methods in Physics; and a research project.

Optional modules may include: Characterisation Techniques in Solid State Physics; Quantum Information; Advanced Characterisation Techniques; Quantum Computing; and Physics of Complex Systems.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, seminars, tutorials, practical sessions and individual study, including your own substantial research project.

Career prospects

Employers of choice for our graduates include the Ministry of Defence, DSTL, BAE Systems, BP, Rolls-Royce and Intelligent Energy in roles such as Business Analyst, Physicist, Technical Manager and Financial Trader. Other students have gone on to study at PhD level.

Physics of Materials

MSc

Full-time length: 1 year
Part-time length: Not available

Entry requirements: A 2:2 honours degree or equivalent international qualification in science or engineering, or appropriate professional experience.

Fees: UK: £11,400 International: £25,450

Programme overview

Our Physics of Materials MSc provides you with the opportunity to work with experts in the field.

This research-focused comprehensive programme is designed to equip you with the advanced theoretical and mathematical skills of a professional physicist. The programme allows you to explore the physics of novel materials, their preparation and characterisation. You will learn how to work with modern research-level equipment and make an analysis of your own experimental and theoretical data, as well as applying modern physics methods to assess materials, examine properties of novel materials, and develop the advanced theoretical and quantitative skills that are highly sought after by employers.

Modules

Compulsory modules may include: Mathematical Methods for Interdisciplinary Sciences; Superconductivity and Nanoscience; Characterisation Techniques in Solid State Physics; Research Methods in Physics; and a research project.

Optional modules may include: Polymer Properties; Composite Materials; Advanced Characterisation Techniques; Simulation of Advanced Materials and Processes; and Materials Modelling.

Additional modules may be available from the Materials Department.

The theme of your research project will be one of the topical areas in physics of materials, including graphene-based materials, thin film materials, shape memory compounds or nanomaterials, or experimental study of properties of materials.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, tutorials, practical sessions and guided independent study, including your own substantial research project.

Career prospects

Employers of choice for our graduates include the Ministry of Defence, DSTL, BAE Systems, BP, Rolls-Royce, and Intelligent Energy, in roles such as Business Analyst, Physicist, Technical Manager and Financial Trader. Other students have gone on to study at PhD level.
Politics and International Studies is committed to delivering outstanding research that has the potential to transform policy, raise new questions and inspire academic and public debate.

Experts within the subject area research and teach across areas relevant to contemporary politics and international studies with an emphasis on migration, populism, development politics and security and defence issues. There is particular strength in the study of regional politics in Africa, Europe and the Arctic. Colleagues work and teach on issues such as gender and militarism, climate change and security, terrorism and urban warfare.

Politics and International Studies at Loughborough is also home to a strong teaching and research base in contemporary and international history with colleagues teaching slavery, empire, post-colonial politics and post-1945 Britain.

Our research focuses on contemporary politics and political theory, modern and international history, international organisation and security studies. We emphasise our policy-relevant work which is linked to practical work for government, NGOs and public debate.

Most of our research is linked to humanities and the political and social sciences but Politics and International Studies also has a fascinating portfolio of interdisciplinary research into the history of ideas, radical movements and activism, gender politics, international politics and history, government and governance, politics and the arts, media studies, history, and digital humanities.

Inspiring graduates
Politics and International Studies is a supportive environment for postgraduate study and fosters strong research links between academics and students. Students participate in seminar planning and receive tailored advice on fellowships and publication.

Grades from this area have secured prestigious positions in academic institutions, whilst others have pursued careers in academic publishing, in international and UK-based campaign groups, and with civil society organisations.

Shane
PhD student

“My favourite thing about Loughborough is the community and support. I received a warm welcome from the current doctoral researchers when I arrived and quickly became part of the community. Everyone wants to see you succeed.”

Our programmes

Research opportunities PhD p142
Security MA p143
Media History MA p143

lboro.ac.uk/pg/polis
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline. Applicants without a postgraduate qualification will be required to complete research training in tandem with their doctoral programme.

Fees: UK: see website International: £18,100

Based within the School of Social Sciences and Humanities, Politics and International Studies comprises the disciplines of politics, history and international relations. All of our academic staff are active researchers, working within and across disciplinary boundaries. The School is home to 130 postgraduates working closely with 100 specialist supervisors who are working across the disciplines of politics, history and international studies.

Centre for Security Studies (CSS)

CSS produces critical and applied research on politically, strategically, socially and ethically pressing security issues in global politics. Its research strengths lie in war and conflict, migration, resilience, and gender and security. The group explores the local and transnational implications of security policies on states, communities and individuals, shedding light on everyday practices of security and the construction of resilient communities in the UK and Europe, as well as globally.

Ethics in Public Life Group

A network of academics from departments across Loughborough and beyond who are committed to debating issues concerning ethics in public life. The group hosts conferences, symposia and public lectures from high-profile speakers on a range of issues from the role of MPs, political lobbying and economic inequality to public health, international aid and the ethics of scientific research.

Media, Memory and History

Research in this group examines both the historical evolution of communication and the involvement of the media in shaping our experience of the past, present and future. It provides a shared focus of research for scholars across the social sciences and humanities. Researchers work on various aspects of media and communication history, mediated memory and the relationship between media and time.

Radical Politics and Populism

This research cluster is focused on the comparative study of populism, radicalism and social movements in democratic societies.

Security

MA

Full-time length: 1 year

Part-time length: 2 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in international relations, politics, history, sociology, criminology or a related subject.

Fees: UK: £9,700 International: £19,950

Programme overview

This degree takes students through a rich variety of different case studies of security threats and responses, including: nuclear weapons, terrorism, migration, climate change, cyber threats and civil wars. Analysis is underpinned by thought-provoking engagement with cutting edge theories in both traditional and critical security studies, war studies, peace studies and related scholarship. Assessment is deliberately policy-relevant. Students also take part in various activities organised by the Centre for Security Studies.

Programmes

LOUGHBOROUGH SCHOOLS AND DEPARTMENTS

Politics and International Studies

Taught programmes

Security

MA

Full-time length: 1 year

Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in a related discipline.

Fees: UK: £9,700 International: £19,950

Programme overview

This is an innovative new programme that provides an understanding and appreciation of the history, role and influence of media, communication and cultural processes and institutions. Taught by a leading and internationally recognised team of scholars based in the School of Social Sciences' Centre for Research in Communication and Culture, the degree provides a unique opportunity to explore one of the liveliest interdisciplinary fields in the social sciences and humanities.

See p82 for more information.

Media History

MA

Full-time length: 1 year

Part-time length: Not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in a related discipline.

Fees: UK: £9,700 International: £19,950

Programme overview

This is an innovative new programme that provides an understanding and appreciation of the history, role and influence of media, communication and cultural processes and institutions. Taught by a leading and internationally recognised team of scholars based in the School of Social Sciences' Centre for Research in Communication and Culture, the degree provides a unique opportunity to explore one of the liveliest interdisciplinary fields in the social sciences and humanities.

See p82 for more information.
Social and Policy Studies

Social and Policy Studies at Loughborough has long been recognised as an international centre of academic excellence and for its cutting-edge, interdisciplinary work – we are home to world-leading, original and internationally excellent research in sociology, social policy and criminology.

This study area is committed to delivering outstanding research that transforms lives and societies and influences and informs government policy. Our staff work with a wide range of public and third sector bodies, including Joseph Rowntree Foundation, the NHS, Child Poverty Action Group, the Metropolitan Police and the UK Drug Policy Commission.

Our social policy and criminology research has world-leading impact, particularly in services for children and minimum income standards. Our research and analysis of ‘A Minimum Income Standard for the United Kingdom’ is the leading standard of its kind in the UK, and is being replicated internationally.

Sociology research focuses on intersections of class, gender, race, religion and other social identities and structural inequalities, migration and citizenship, digital media, health, and consumption, culture and inequality.

Our graduates have gone on to work for companies and organisations such as China Development Research Foundation, Elsevier Ltd, Image Line Communication, Institute of Psychiatry, the Metropolitan Police Service, Oxfam, and X-Pert Med GmbH.

Our programmes

Research opportunities PhD  p146
Social Science Research (Social Policy) MSc  p147
Childhood, Youth and Social Policy MA  p147
Digital Media and Society MA  p147

lboro.ac.uk/pg/social
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline. Applicants without a postgraduate qualification will be required to complete research training in tandem with their doctoral programme.

Fees: UK: see website International: £18,100

Based within the School of Social Sciences and Humanities, Social and Policy Studies and comprises the disciplines of sociology, criminology and social policy. All of our academic staff are active researchers, working within and across disciplinary boundaries. The School is home to 130 postgraduates working closely with 100 specialist supervisors who are located in one of five main research areas:

- Communication and Media
- Geography and Environment
- Humanities
- Politics and International Studies
- Social and Policy Studies.

Our areas of research

Criminology and Social Policy (CASP)

This group of international researchers focuses on the analysis of issues associated with crime and social policy, and on enhancing the relationships between policy and practice. Research in CASP is situated within and across two central agendas: children, young people and families (social policy), and applied criminal justice (criminology), which includes work in the fields of youth justice, probation, prisons and victimisation.

Staff members contribute widely to agenda setting and thought leadership in their areas of expertise. In addition to publishing extensively, CASP staff also contribute to national policy debates and the evidence based transfer of policy into practice locally, nationally and internationally.

Sociology

Members of the sociology research team are recognised internationally for contributions to their specialist fields, including social identities and structural inequalities relating to class, gender, race and religion; migration and citizenship; consumption, culture and inequality; health, mental health and biomedicine; digital technologies, economies and cultures; and classic and contemporary social theories. Our academics publish in leading international journals, make regular contributions to public debates by discussing their research findings in national and international media, and have established partnerships with a wide range of stakeholders.

Centre for Research in Social Policy (CRSP)

CRSP is an internationally renowned research centre, specialising in innovative and applied social policy research and critical policy analysis, particularly focused on poverty, income and living standards. CRSP staff collaborate with governments, large funding bodies, policy-makers and practitioners in developing their highly distinctive strategy for research, enterprise and impact. The centrepiece of CRSP’s work is the ‘Minimum Income Standard’, a world-leading, cutting edge research programme working to reach public agreement on the budget levels required to meet a socially acceptable standard of living, collaborating with partners in eight countries to apply this method.

Doctoral Training Partnership (DTP)

Social and Policy Studies is proud to be part of the ESRC Midlands Graduate School DTP in partnership with Warwick, Nottingham, Birmingham, Aston and Leicester universities.

Taught programmes

Social Science Research (Social Policy)

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in a related discipline.

Fees: UK: £9,700 International: £19,950

Programme overview

Our Social Science Research (Social Policy) MSc provides you with a comprehensive overview of the key methodological and philosophical debates that currently shape social sciences. It also provides an opportunity to develop specialised research methods skills in social policy in an internationally renowned department for social policy research.

The programme consists of compulsory and optional modules delivered across Loughborough’s Schools of Social Sciences; Sport, Exercise and Health Sciences; Business and Economics; and Science.

On completion of the Social Science Research (Social Policy) programme, you will have met the MSc training requirements for PhD funding from the ESRC, opening up the possibility of securing doctoral researcher funding from this research council.

Modules

Compulsory modules studied may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods: Understanding Social Policy Research; and a dissertation.

Optional modules studied may include: Doing Research with Young People in their Socio-spatial Contexts; Advanced Content Analysis, Methodological Advances in Applied Ethnography, Applied Conversation Analysis; and Methodological Implications of Critical Realism.

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, practical sessions and workshops.

Career prospects

As this is a new programme, graduate destinations are not yet available. However, this degree is particularly suitable for those interested in social and policy research, local government, civil service, housing, third sector and NGOs.

Childhood, Youth and Social Policy

MA

Full-time length: 1 year

Part-time length: 2 years

Entry requirements: A 2:1 honours degree or equivalent international qualification in a related discipline.

Fees: UK: £9,700 International: £19,950

Programme overview

This programme is a multidisciplinary programme that explores children and young people’s lives in diverse contexts and related social policy debates. It critically examines current advanced research on children, young people and families with reference to relevant theories and concepts in human geography and the wider social sciences.

See p107 for more information.

Digital Media and Society

MA

Full-time length: 1 year

Part-time length: not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in a related discipline.

Fees: UK: £9,700 International: £19,950

Programme overview

This programme offers a comprehensive understanding of current developments in digital media and their wider social significance. It is designed to provide you with an in-depth understanding of current thinking and debates on the implications of the integral role of digital media in contemporary life. It is delivered by a diverse interdisciplinary team with a strong profile in digital culture, media, sociology, anthropology and communication studies.

See p81 for more information.
The School of Sport, Exercise and Health Sciences is a globally recognised centre of excellence for the study of sport, exercise and health across the natural and social sciences.

Ranked first in the world for sports related subjects for four years running in the prestigious QS World University Rankings, our wide-ranging expertise encompasses diverse areas such as medicine, molecular biology, nutrition, physiology, biomechanics, economics, pedagogy, psychology, sociology and sport management.

We work with influential sport organisations from across the world who wish to partner with us on a range of cutting-edge research, teaching and enterprise activities. These partnerships benefit our students by ensuring that our teaching and research are informed by industry and have a real world impact on society, culture and the economy.

Our postgraduate students have gone on to further study or to follow careers in teaching, lecturing and research, as well as taking up positions within a variety of organisations or starting their own businesses.

World-class facilities
We are proud to offer postgraduate students the most advanced facilities for learning and research with access to state-of-the-art laboratories, teaching resources, equipment, and sport and exercise facilities. This includes the £10 million pioneering sport and exercise medicine centre – one of three regional hubs that, together, form the country’s first ever National Centre for Sport and Exercise Medicine. Loughborough University and the School of Sport, Exercise and Health Sciences offer both a truly unique student experience and a dynamic centre of research excellence.

Sport, Exercise and Health Sciences

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**Research opportunities**

**PhD:** 3 years full-time; 6 years part-time

**Entry requirements:** A 2.1 honour degree or equivalent international qualification, or a master’s degree.

**Fees:** UK: see website  International: £24,100

With globally renowned staff collaborating with other academic institutions, centres and industry partners around the world, the School of Sport, Exercise and Health Sciences has been recognised for the quality of its research (commended in the most recent Research Assessment Exercise) and enjoys a high profile in the media. Research within the School continues to have a far-reaching impact and reflects the global interests of staff and their extensive international collaboration. Research is multi-disciplinary, drawing on the full spectrum of natural and social sciences, and is focused on issues of contemporary concern at international, national and local levels.

The School is renowned for fundamental and applied research which supports knowledge advancement and informs the practice of organisations worldwide.

**Supporting you**

You will be assigned a primary and secondary supervisor who provide academic and personal support, along with the Director of Doctoral Programmes who oversees your progress. You will have a desk, workstation, allowance for photocopying and inter-library loans, plus the opportunity to apply for conference travel grants.

**How to apply**

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised via our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should submit a research proposal of a maximum of 1,000 words, to include the aims of your study, a brief literature review, an outline of the proposed research methods and your preferred member of staff to supervise the project. You are strongly recommended to contact us before submitting an application for preliminary discussions regarding topics, availability and funding.

Our areas of research
A broad range of social and natural sciences contribute to the School’s research activity, which is organised within three themes.

**Sports Performance**

The research within this theme aims to understand and enhance sport and exercise performance across the ability range, by investigating the factors influencing, and methods for improving, human performance in sport and exercise. These objectives encompass the physiological, psychological, biomechanical and psychological aspects of performance, as well as injury prevention and rehabilitation. A further objective is to analyse the social, political and economic context within which performance sport takes place.

**Lifestyle for Health and Well-being**

Research within this theme strives to improve human health and well-being throughout the lifespan by considering the social, behavioural and biological determinants and consequences of human lifestyles, with a specific emphasis on physical activity, nutrition and chronic disease.

**Participation in Sport and Exercise**

Research under this theme aims to increase and enhance the sport and exercise opportunities and experiences of participation in sport and exercise. It analyses the sociological, economic, psychological, political, organisational and behavioural factors which inhibit and facilitate community participation in sport and exercise.

For more information about research opportunities in the School of Sport, Exercise and Health Sciences, please visit: lboro.ac.uk/ssehs/research

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**Taught programmes**

**Exercise as Medicine**

**MSc**

**Full-time length:** 1 year

**Part-time length:** Typically 2 years (please see website for more information)

**Entry requirements:** An honours degree (2.1 or above) or equivalent international qualification in sports science or other relevant biological science, which contains a substantial element of exercise physiology, such as applied human physiology or physiotherapy.

**Fees:** UK: £14,500  International: £24,650

**Programme overview**

Our Exercise as Medicine MSc will equip you with the knowledge and skills to promote the prescription of exercise, both as a preventative measure as well as treatment/therapy. It will educate a new, highly skilled cohort of allied health professionals with the ability to work alongside clinicians and practitioners to manage the epidemic of lifestyle-related diseases and conditions.

You will benefit from our world-leading National Centre for Sport and Exercise Medicine – East Midlands (NCSEMEM), which is accredited by the International Olympic Committee (IOC) Research Centre for Prevention of Injury and Protection of Athlete Health – one of just five accredited centres around the world.

**Modules**

Core modules may include: Orthopaedic Sport Biomechanics; The Risks of, and Recovery from, Sports and Musculoskeletal Injury; Neuromuscular Function; Physiology of Sports Performance; Basic Science and Regenerative Therapy; Emerging Digital Technologies; and a research project.

Optional modules may include: Measurement of Human Movement; and Developing Computer Models for Sports Biomechanics.

**How you will be assessed**

You will be assessed by coursework, essays, laboratory write-ups, reports, presentations, in-class tests, and exams, as well as project reports and a research project.

**How you will study**

Your learning will be supported through a range of seminars, lectures, tutorials, independent study and practical sessions.

**Career prospects**

Typical career destinations include sports science support with the English Institute of Sport, working in rehabilitation and exercise therapy, and working with professional sports organisations. Other graduates progress to PhD study and teaching in further and higher education.

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**Musculoskeletal Sport Science and Health**

**MSc**

**Full-time length:** 1 year

**Part-time length:** Typically 2 years

**Entry requirements:** A 2.1 honour degree or equivalent international qualification in a relevant subject, or equivalent professional experience.

**Fees:** UK: £14,500  International: £24,650

**Programme overview**

Our Musculoskeletal Sport Science and Health MSc will provide you with knowledge of the scientific concepts and procedures underpinning sport and exercise-related musculoskeletal function, measurement, injury and treatment.

The programme provides a multidisciplinary perspective on the study of musculoskeletal health and performance, including anatomy, physiology, biomechanics, bioengineering and kinesiology.

It is delivered in connection with the National Centre for Sport and Exercise Medicine – East Midlands (NCSEMEM), which is accredited by the International Olympic Committee (IOC) Research Centre for Prevention of Injury and Protection of Athlete Health – one of just five accredited centres around the world.

**Modules**

Core modules may include: Orthopaedic Sport Biomechanics; The Risks of, and Recovery from, Sports and Musculoskeletal Injury; Neuromuscular Function; Physiology of Sports Performance; Basic Science and Regenerative Therapy; Emerging Digital Technologies; and a research project.

Optional modules may include: Measurement of Human Movement; and Developing Computer Models for Sports Biomechanics.

**How you will be assessed**

You will be assessed by coursework, essays, laboratory write-ups, reports, presentations, in-class tests, and exams, as well as project reports and a research project.

**How you will study**

Your learning will be supported through a range of seminars, lectures, tutorials, independent study and practical sessions.

**Career prospects**

Typical career destinations include sports science support with the English Institute of Sport, working in rehabilitation and exercise therapy, and working with professional sports organisations. Other graduates progress to PhD study and teaching in further and higher education.
Physical Education with Qualified Teacher Status (QTS)

PGCE/MSc with QTS

PGCE: 1 year full-time
MSc with QTS: 1 year full-time PGCE plus additional part-time modules.

Entry requirements: A 2.1 honours degree or equivalent international qualification in a relevant discipline, which includes at least 50% sport science or PE-related content. A 2.2 honours degree with extensive school experience will also be considered. Please see website for full details.

Fees: PGCE: UK: £9,700 MSc with QTS: UK: see website

Programme overview

Our Physical Education with Qualified Teacher Status (QTS) programme prepares you to teach secondary school students. It provides practical professional preparation for teaching and is designed and delivered in partnership with local schools. One third of the programme is university-based and two thirds of your time will be spent in schools.

We have a strong tradition of teacher education and a history of successfully producing outstanding teachers, who are in great demand by schools and colleges in the UK and overseas.

You will have access to both the University’s outstanding sports facilities for the taught element of the course and to selected partnership schools in the region for the school-based element of the course.

The PGCE represents both a standalone qualification and the first year (contributing half the credits) of an MSc in Education with QTS. This therefore provides an opportunity for you to gain a relevant master’s degree during your early teaching career, should you wish to continue your studies beyond the PGCE year.

How you will be assessed

You will be assessed through a variety of methods, including written assignments and a group presentation. You will also be assessed in your practical teaching.

How you will study

Your learning will be supported through a range of lectures, seminars, tutorials, group work, independent study and practical sessions.

Career prospects

The majority of our PGCE trainees secure teaching posts by the time they complete their training, and have gone on to successful careers in many different schools throughout the UK and overseas.

Programme overview

How you will study

You will study through participation in lectures, tutorials, group work, practical laboratory sessions, and via supervised research and independent study.

Career prospects

This programme will equip you for future careers in applied sports physiology/nutrition, exercise physiology and sport nutrition support, in research (PhD, or research positions in the Higher Education Sector), teaching in higher education or in employment in industry. Employability and applied skills teaching are embedded within the programme. Recent graduates have been employed by National Governing Bodies (including UK Athletics, British Swimming, British Cycling) Professional bodies (including the Football Association, Rugby Football Union, Lawn Tennis Association), the English, Scottish and Welsh Institutes of Sport, Industry (including Nestle, GlaxoSmithKline, Yakult) and in health settings (including the NHS, BUPA, Nuffield Health).

Physical Education with Qualified Teacher Status (QTS)

PGCE/MSc with QTS

PGCE: 1 year full-time
MSc with QTS: 1 year full-time PGCE plus additional part-time modules.

Entry requirements: A 2.1 honours degree or equivalent international qualification in a relevant discipline, which includes at least 50% sport science or PE-related content. A 2.2 honours degree with extensive school experience will also be considered. Please see website for full details.

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You will study through participation in lectures, tutorials, group work, practical laboratory sessions, and via supervised research and independent study.

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Social Science Research (Sport and Exercise Science)

MSc

Full-time length: 1 year
Part-time length: Typically 2 years

Entry requirements: A 2.1 honours degree or equivalent international qualification in a wide range of subjects.

Fees: UK: £9,700 International: £19,950

Programme overview

Our Social Science Research (Sport and Exercise Science) MSc provides students with a comprehensive overview of the key methodological and philosophical debates that shape the social sciences.

Our research is multidisciplinary, drawing on the full spectrum of natural and social sciences, and is focused on issues of contemporary concern at international, national and local levels. We engage in strong partnerships with leading schools, institutes and universities across the world in the research fields of sport, exercise, education, health and well-being.

The broad scope of this research has, for example, led to: developments in the treatment of eating disorders; improved understanding of the effects of sedentary lifestyles and the benefits of physical activity; academic support to enhance sport coaching; advice to international sport organisations and governments on policies and procedures; guidance and support for elite athletes (both able-bodied and disabled) to achieve their full potential; and the use of exercise in treating health conditions.

Modules

Compulsory modules studied may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods (Sport and Exercise Science); Development of Social Scientific Methods; and the Research Project.

How you will be assessed

You will primarily be assessed via coursework, along with a dissertation and an oral poster presentation.

How you will study

Your learning will be supported through a range of lectures, seminars, independent study, group work, practical sessions, workshops and/or field work.

Career prospects

Graduates from the School have gone on to pursue roles in sport and exercise psychology within such organisations as the British Psychological Society, Brighton and Hove Albion FC, GiveSurf, Leicester Tigers, and the Ministry of Defence. Many graduates undertake Stage 2 training to become Health and Care Professionals Council-accredited Sport and Exercise Psychology practitioners.

Programme overview

Our Sport and Exercise Psychology MSc moves beyond the fundamentals of psychological science. It focuses on significant areas in the applied contexts of sport and physical activity, while providing a critical understanding of sport and exercise psychology.

The programme is designed and delivered to prepare students for practitioner career pathways or doctoral research and academic roles in sport and exercise psychology. It is accredited by the British Psychological Society (BPS) via ‘Accreditation Through Partnership’.

Modules

Compulsory modules may include: Psychology of Sport and Physical Activity in Youth; Current Research in Performance Psychology and Management; Psychology of Exercise for Clinical Populations; Motivation and Individual Differences in Sport and Exercise; Mental Health in Sport and Exercise; Professional Practice in Sport Psychology; Psychology of the Coach-Athlete Relationship; Introductory Qualitative and Quantitative Research; and the Research Project.

How you will be assessed

You will be assessed by a rich variety of coursework assessments, in-class tests, and examinations.

How you will study

Your learning will be supported through a range of lectures, seminars, independent study, group work, practical sessions, workshops and/or field work.

Career prospects

Graduates from the School have gone on to pursue roles in sport and exercise psychology within such organisations as the British Psychological Society, Brighton and Hove Albion FC, GiveSurf, Leicester Tigers, and the Ministry of Defence. Many graduates undertake Stage 2 training to become Health and Care Professionals Council-accredited Sport and Exercise Psychology practitioners.
Sport Biomechanics

**MSc**

**Full-time length:** 1 year
**Part-time length:** Typically 2 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in sport or biological sciences (with a substantial biomechanics/bioengineering component), or in engineering, maths, physical sciences, or related disciplines.

**Fees:** UK: £11,400 International: £25,450

**Programme overview**

Our well-established MSc in Sport Biomechanics enables you to specialise in the ‘physics of sport’ – the area of science concerned with the analysis of human movement. Through the measurement and simulation of movement, it facilitates a greater understanding of human performance in sporting and recreational activities. This understanding can then be used to improve performance and reduce injury risk.

You will be taught by world-leading experts in experimental and theoretical sport biomechanics and motor control, in dedicated facilities, containing key pieces of biomechanics equipment. This includes Vicon motion analysis systems, force plates, wireless electromyography (EMG), and isokinetic dynamometers, together with the programming language MATLAB for data processing and analysis, and software for computer simulation and inertia modelling.

The programme culminates in an original research project that involves the collection and analysis of data to answer a research question.

**Modules**

Indicative content: Core Biomechanics; Neuromuscular Function; Orthopaedic Biomechanics; Theories and Methods of Analysis in Biomechanics; Developing Computer Models for the Science of Biomechanics; Quantitative Research; and a research project.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and group work.

**Career prospects**

Recent graduates include: Elite athlete support for the English Institute of Sport and the Lawn Tennis Association; PhD research at Loughborough and on to work in the sport industry within the UK and in wider sport-related fields of employment.

Graduates from related programmes have gone on to pursue roles in strength and conditioning and coaching.

**Strength and Conditioning**

**MSc**

**Full-time length:** 1 year
**Part-time length:** Typically 2 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in sports science or other relevant biological science that contains an element of exercise physiology, such as applied human physiology or physiotherapy.

**Fees:** UK: £11,400 International: £25,450

**Programme overview**

Our Strength and Conditioning MSc provides the knowledge, skills and experience to develop athletes across the spectrum of athletic achievement, from participation to high performance.

The programme provides bespoke research-informed modules to develop your knowledge of all topics relevant to strength and conditioning. The programme capitalises on Loughborough’s sporting strengths to enable the provision of hands-on coaching experience, designed to give you the tools to develop athletic performance at the highest level.

The programme focuses on the science and practice of strength and conditioning as well as the fundamental science underpinning performance adaptations. There is also the opportunity to undertake an extended coaching internship with either Loughborough University Sports or professional sport partners. The programme culminates in an independent research project in which you will apply the knowledge and techniques you have learned to answer a scientific question relevant to strength and conditioning.

**Modules**

Modules studied may include: Neuromuscular Function; Strength and Conditioning Coaching; Applied Strength and Conditioning; Exercise and Sport Performance and Injury; Professional Practice; and a research project.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and presentations.

**How you will study**

Your learning will be supported through a range of seminars, tutorials, independent study, group work, practical sessions and supervision.

**Career prospects**

As this is a new programme there is no graduate destination information currently available. However, graduates from related programmes have gone on to pursue roles in strength and conditioning and coaching for a variety of organisations including: Fulham Football Club, Spartans Football Club, Sport891, the England and Wales Cricket Board, the Aquatic Sports Association of Malta, Cressy Sports Performance, and Leicester City and Aston Villa football clubs.

**Sport Management**

**MSc**

**Full-time length:** 1 year
**Part-time length:** Typically 2 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in the areas(s) of sport, business, management or related subject (ie marketing, accounting, economics), law or journalism.

**Fees:** UK: £11,400 International: £25,450

**Programme overview**

Our Sport Management MSc will equip you with the skills and knowledge to work in the rapidly expanding global sport industry.

Our academic staff are renowned internationally for their contribution to sport management research and have conducted research for a range of respected organisations, including Sport England, the International Olympic Committee and the European Commission. Their leading research supports and enhances the teaching on the programme.

You will address topics such as professional sport marketing strategies, new sport policies, strategic management and innovation in the sports industry, and the governance of sport federations. You will develop strong team working skills through regular group work and will have the opportunity to experience applied elements in the degree to develop your practical skills.

In addition, we regularly host guest speakers who present interesting and relevant insights and provide opportunities for you to network with key players in the sport industry.

**Modules**

Modules studied may include: Sport Policy, Governance and Law; Global Sport Marketing and Media; Economics of Innovation in Sport; Human Resource Management in the Sport Industry; Accounting for Decision Making; Managing Strategy Development in Sport Organisations; Research Methods and Skills for Sport Managers; and a research project.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and group work.

**Career prospects**

Recent graduates include: Elite athlete support for the English Institute of Sport and the Lawn Tennis Association; PhD research at Loughborough and other top 100 QS world ranked universities, Biomechanics services at the National Biomechanics Institute ILUSI and Boardman Bikes, and Biomechanics technology with Hawkeye and Vicon.

**Sport Management, Politics and International Development**

**MSc**

**Full-time length:** 1 year
**Part-time length:** Typically 2 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in sports science or other relevant biological science that contains an element of exercise physiology, such as applied human physiology or physiotherapy.

**Fees:** UK: £11,400 International: £25,450

**Programme overview**

Our MSc in Sport Management, Politics and International Development aims to provide you with a strong critical understanding of sport management, sport politics and international development in sport. It is taught by our diverse team of staff who are recognised globally for their research and teaching in these areas. Our team is committed to equipping you with the knowledge and skills to work in the global sport industry and in wider sport-related fields of employment.

Our academic staff have undertaken projects with many leading organisations including: the Commonwealth Secretariat, European Commission, International Olympic Committee, International Paralympic Committee, and UK Sport.

The programme draws on our strong ties across the sport sector and with sport-related organisations in business, government, and non-profit fields. Key representatives from these organisations contribute to the programme through guest lectures and/or via supporting other collaborative learning opportunities for postgraduate students, adding further value to your studies.

**Modules**

Modules studied may include: Research Methods and Skills for Sport Managers; The Development of Sport; Politics of Sport; Sport Integrity; Global Sport Marketing and Media; Sport and International Development; Sport Policy, Governance and Law; and a research project.

**How you will be assessed**

You will be assessed by a combination of exams, coursework and group work.

**How you will study**

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and supervision.

**Career prospects**

This programme will provide you with the skills and knowledge to enter careers in sport management, sport policy, and sport development, or to pursue PhD study. Graduates from the School have gone on to work for a variety of organisations including Adidas, Arena Sports, Group M China, Lawn Tennis Association, Major Events International, Qatar Investment Group, and the Youth Sport Trust.
Loughborough University offers an inspiring learning environment, complete with world-leading scholars, dynamic industry partners and a comprehensive package of careers and employability support. Not only will you develop in-depth knowledge of your chosen subject area but you will also gain the skills and experiences you need to make your dream career a reality.

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The Institute for Design Innovation is committed to delivering high quality teaching in collaboration with industry and civil society to address real-life enterprise and social innovation needs.

The Institute combines research, teaching and enterprise to deliver a comprehensive set of programmes in design innovation and management, service design, branding, cultural heritage innovation, sustainable management and design research.

Design students have the opportunity to take part in a wide range of activities with the Institute’s extensive network of industry partners, social enterprises and voluntary organisations. The Institute also proudly maintains a close collaborative relationship with the School of Design and Creative Arts, located at the Loughborough campus.

We are committed to helping our students achieve great things, and encourage all of our students to build professional relationships with the organisations that interest them the most. Whether your goal is to launch your own business, support the development of an existing product or service, or work in the areas of sustainability and social and cultural innovation, the Institute for Design Innovation is dedicated to making your future ambitions a reality.

Innovative teaching and research
Each programme allows students to engage in externally connected creative projects whilst studying in the design capital of the world. These projects provide students with experience of working in cross-cultural and interdisciplinary design-driven teams, facilitating the development of skills that are increasingly in demand by industry and civil society.

The research agenda of the Institute for Design Innovation builds on the idea that design enables innovation through positive change in the context of users, organisations, ecosystems and society. Our research topics include design value, design meaning, delivery of policies and services, and collaborative practices in social and enterprise environments.

Imogen
Design Innovation Management MSc

“I love the sense of community at Loughborough University London. I have made friends from all over the world and the diversity benefits my learning as we are able to learn from each other while collaborating.”

Our programmes
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Service Design Innovation MSc p163
Sustainable Management MSc p163

Ibaco.ac.uk/pg/design-innovation
Research opportunities

**PhD:** 3 years full-time; 6 years part-time

**Entry requirements:** A 2:1 honours degree or equivalent international qualification.

**Fees:**
- **UK:** see website
- **International:** £24,100

The Institute for Design Innovation welcomes explorative research proposals with novel methodologies and creative approaches to the grey areas of design research.

The Institute for Design Innovation is currently engaged in research with a focus on the use and application of design knowledge, skills and approaches in various contexts.

Through pursuing one of our postgraduate research programmes, research students will have the opportunity to work with top researchers and industry leaders, and gain first-hand experience of real-life problem solving.

Our aim is to create a vibrant, enthusiastic, and forward thinking community, where world-leading academics and talented students work closely together to research world leading inventions.

Our areas of research

The Institute for Design Innovation has an interest in pursuing issues in design that are at the vanguard of design research, and which have the potential to deliver outstanding outcomes for design research and practice. The thematic areas include, but are not limited to:

- **Design Delivery**
  This research area examines the role of design and designers in entrepreneurship, sustainable product service systems, social enterprises and services, and the circular economy through concepts such as innovation ecosystems.

- **Design Exploration**
  This area investigates exploratory topics, imaginative contexts and novel methodologies of design and its relationship to the socio-political.

- **Design Meaning**
  This research area examines design-driven innovation of experience and meaning in design and innovation in the context of culture, society, communication and media.

- **Design Practice**
  This area of research investigates creative and design-driven contexts by exploring collaborative, interdisciplinary and multicultural practices and approaches, drawing on theories of social practice, amongst others.

- **Design Value**
  This area of research is focused on understanding the multiple ways of interpreting value and their relation to design, through the application of design into multiple contexts involving users, organisations, ecosystems and society.

Career prospects

As well as providing a route into academia, studying a PhD will give you the expertise and skills required to advance your career in a wide range of professions, vocations and businesses.

**Doctoral Training Partnership (DTP)**

The Institute for Design Innovation participates in the AHRC techné DTP, in partnership with eight institutions from across the South East. The programme aims to support outstanding students pursuing the ‘craft’ of research through innovative, interdisciplinary approaches with an emphasis on creativity and practice.

Taught programmes

**Cultural Heritage Innovation MA**

**Full-time length:** 1 year

**Part-time length:** Up to 4 years

**Entry requirements:** Please see website for details.

**Fees:** Please see website for details.

**Programme overview**

Our Cultural Heritage Innovation MA programme will provide you with the understanding and skills for undertaking customer centric innovation within the cultural and heritage sectors. This programme will enhance your ability to understand how people experience cultural and heritage sites, and to envision, create and manage innovation for museums, galleries, art organisations or urban or rural historical heritage sites as ecosystems for sustainable socioeconomic development. Through a series of lectures and projects, you will understand how different audiences experience cultural and heritage spaces, and build a portfolio of work informed by the study of culture and heritage through a design thinking, design anthropology and cultural studies lens.

For more details please see lboro.ac.uk/pg/design-innovation

**Design and Branding MA**

**Full-time length:** 1 year

**Part-time length:** Up to 4 years

**Entry requirements:** Please see website for details.

**Fees:** Please see website for details.

**Programme overview**

Our Design and Branding MA programme will encourage you to explore dynamic, contingent relationships between the strategic use of design and branding. This programme will equip you with the right skills and understanding of the increasingly important and strategic role of design in the marketplace and in society. If you are looking to learn more about the strategic role of design, enhance your design skills and knowledge and work in multi-disciplinary and interdisciplinary design teams, this programme is for you.

For more details please see lboro.ac.uk/pg/design-innovation

**Research opportunities**

**PhD:** 3 years full-time; 6 years part-time

**Entry requirements:** A 2:1 honours degree or equivalent international qualification.

**Fees:**
- **UK:** see website
- **International:** £24,100

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Our areas of research

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**Full-time length:** 1 year

**Part-time length:** Up to 4 years

**Entry requirements:** Please see website for details.

**Fees:** Please see website for details.

**Programme overview**

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Design Innovation

MA/MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2.2 honours degree or equivalent international qualification in design, innovation, business, media, technology or a related subject. Applicants from non-design backgrounds must have achieved 55% or above in their final year.

Fees:
- UK: £11,300
- International: £26,500

Programme overview

Our Design Innovation MA/MSc programme will help you engage with design and innovation as drivers for change in organisations, generating insight from across the creative and strategic domains. You will have access to the latest knowledge, debates and issues in design and innovation, enhancing your creative, strategic and collaboration skills through a mixture of active learning and project work. Each module will develop your design innovation knowledge by analysing and evaluating current practices, issues and debates and responding to genuine industry challenges. Taking part in projects with real organisations will provide you with experience of working in cross-cultural and interdisciplinary design teams, facilitating the development of skills that are essential across a range of disciplines.

Modules

You can expect to study modules which focus on the following topics: design innovation in organisational contexts; design thinking; design research; managing design in organisations; creating design futures; and designing services and strategy. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, journal entries and projects. For information about the assessments you will be expected to complete for each module, please see the full module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Career prospects

You will graduate with advanced knowledge of design innovation in organisational contexts. Your skills and experience will be best suited to senior positions within design and branding consultancies, as well as in-house design and marketing departments.

Design Innovation Management

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2.2 honours degree or equivalent international qualification in design, innovation, business, media, technology or a related subject. Applicants from non-design backgrounds must have achieved 55% or above in their final year.

Fees:
- UK: £11,300
- International: £26,500

Programme overview

The Design Innovation Management MSc programme will enhance your design skills and develop interdisciplinary knowledge through both theoretical and practical modules on a range of topics relevant to contemporary design management issues. The interdisciplinary blend of design and management in this programme will enable you to develop critical approaches and practices that enhance your effectiveness as a designer, to enable you to pursue a broad range of design management careers in the private and public sectors relevant to the world of today. You will learn the value of collaborative behaviour and teamwork through modules such as the collaborative project, and will gain an insight into the inner workings and pressures facing real world contexts.

Modules

You can expect to study modules which focus on the following topics: innovation through design; principles of international management; corporate social responsibility and sociology of work; research through design; examining design futures; and service design and strategy. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

This programme will enhance your career prospects and prepare you for roles in innovation management. On completion, you will have the skills to gain senior roles in the management of design, in social enterprise innovation, and in research, development and technology.

Service Design Innovation

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: Please see website for details.

Fees: Please see website for details.

Programme overview

Our Service Design Innovation MSc programme explores the makeup of a successful service designer and seeks to uncover how service design innovation knowledge, behaviour and skills can influence and inform the design innovation process. This programme will provide you with the experience of working in cross-cultural and design-driven teams, facilitating the development of service design skills which are increasingly in demand in both social innovation and industry.

For more details please see lboro.ac.uk/pg/design-innovation

Sustainable Management

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: Please see website for details.

Fees: Please see website for details.

Programme overview

Our Sustainable Management MSc will provide you with state-of-the-art interdisciplinary knowledge and the tools necessary for addressing sustainable management and design innovation problems. This programme will develop your critical understanding on how to manage the practice of sustainability, along with insights into the future of broader economic, social, environmental, policy and governance issues related to sustainable development.

For more details please see lboro.ac.uk/pg/design-innovation
The Institute for Digital Technologies offers teaching and research excellence across all major areas of digital technologies. These include the latest advances in Artificial Intelligence and Data Analytics (applied to sports, intelligent mobility, security and privacy, marketing and finance, human behaviour analysis, and other application areas), Internet of Things, cyber security, immersive and interactive systems and 5G mobile applications.

The Institute for Digital Technologies is committed to building strong collaborations with academics, researchers and industrial organisations. Some of these collaborators include British Telecom, BT Sport, PTV Group, Chelsea Football Club, Huawei Technologies and many others.

London is one of the top cities in the world for developing the latest advances in technology, business and media, and offers a unique learning environment for anyone who shares a passion for digital technologies.

Outstanding teaching and research
Each programme offers teaching from the most influential thought leaders, pioneering researchers and creative innovators to expose students to the latest theories and developments from across the discipline. Programmes are shaped by the principles and discoveries of our current research, and students are encouraged to participate in development projects and industry-focused work experience opportunities where possible.

PhD students within the Institute for Digital Technologies are provided with unrivalled access to industry partners and participate in large-scale national and international collaborative projects. With access to extensive software and equipment, as well as a dedicated research facility complete with hot desks, kitchen and social area, it is easy to see why the Institute boasts an exceptional postgraduate research experience.

Our programmes
- Research opportunities p166
- Artificial Intelligence and Data Analytics MSc p167
- Cyber Security and Data Analytics MSc p167
- Digital Creative Media MSc p168
- Digital Finance MSc p168
- Digital Innovation Management MSc p169
- Digital Marketing MSc p169

“The University allows you to collaborate with renowned companies which I’ve found to be a vital part of my personal development and will benefit me in my future career.”

Pink
Digital Marketing MSc
Our areas of research

Current research within the Institute focuses on several research themes, including:

**Advanced 5G applications**
Processing and transmission of high-bandwidth, low-latency and interactive VR and AR media, UltraHD, Multi-View Video, High Dynamic Range content, volumetric and point-cloud media, immersive audio systems and applications, intelligent network resource allocation, multi-access edge computing, mmWave 5G systems.

**Human Behaviour Analysis**
Affective computing and emotion recognition, human-computer interaction, activity recognition and monitoring, biometric data processing, person re-identification and personality analysis.

**Intelligent and Autonomous Mobility**
Multimodal data fusion for robust decision making in autonomous vehicles for free space detection, self-localisation, pedestrian activity recognition and anticipation, cooperative vehicle control, traffic analysis and optimisation in future cities.

**Market Intelligence and Personalised E-Commerce**
Consumer decision-making, perception and trust triggered by virtual presentation and information disclosure, consumer profiling and digital psychological metrics (affect, personality, preference, coercive inclination etc.) revealed by clickstream data, social network analysis and insight generation, influence on consumer choices through recommendation algorithms.

**Sports Analytics**
Multimodal data processing and analysis for insight generation into physical athlete performance, tactical performance and risk factors, understanding of team level tactics and decision-making patterns.

**Trust, Identity, Privacy and Security**
Privacy-preserving data processing techniques, advanced cryptographic techniques, user activity and profiling, identification, evaluation and mitigation of emerging cyber-threats using advanced signal processing and machine learning methods.

Career prospects

As well as providing a route into academia, studying a PhD will give you the expertise and skills required to advance your career in a wide range of professions, vocations and businesses.
Digital Creative Media

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2:2 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £26,500

Programme overview

The Digital Creative Media MSc is aimed at providing students with 21st-century creative skills across many media platforms, applicable to various sectors. Specially crafted topics included in the programme focus on game technologies, media production and creative industries, and digital application development, digital creative media audiences, markets and industries, aligning with the needs of today's creative economy. You will also benefit from experiences in 3D creative media and studio environments.

The programme will include applied examples of pioneering research and offer innovative projects and industrial placement opportunities to bring you up to date with the latest knowledge and skills required in this rapidly changing domain.

Modules

You will have the opportunity to study modules which focus on: media design and production; digital media and creative industries; applied 3D media environments; gaming technologies and systems; digital application development; media processing; Internet of Things and applications; cloud applications and services; digital media audiences and markets; design practices in digital industries; and social identities and media. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments. You can expect to complete essays and exams, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Career prospects

Graduating from the Digital Creative Media MSc will provide you with several career pathways in the domains of media and creative industries and related sectors, such as music, TV, film and other media content production, studio management, game development, digital media and virtual/augmented reality applications. You will also have the knowledge and skills required for a career path in academia and/or research.

Digital Finance

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2:2 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £26,500

Programme overview

The Digital Finance MSc is aimed at providing students with a comprehensive understanding of finance in the digital age and developing their skills to address associated challenges with the use of digital technologies in FinTech and related domains to optimise the financial market intelligence.

The programme combines finance and complementary digital technologies to provide students with a unique academic experience. Important financial themes, methods and principles are combined with the latest teaching on Data Analytics, Internet of Things, Cloud Systems, Cyber Security, and other emerging digital technologies and trends.

Modules

You will have the opportunity to study modules which focus on: financial technologies; finance principles; principles of data science; information management; digital application development; statistical methods in finance; cloud applications and services; digital technologies for market analysis; information systems security; advanced big data analytics; gaming technologies and systems; and strategy and planning. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments. You can expect to complete essays and exams, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Career prospects

This programme will provide graduates with employment skills essential to the digital finance-related sectors, such as banking, accountancy, financial insight generation and managing financial and security risks in the digitalised world. It will also provide graduates with an overarching view of the context in which today's digital economies, international banking, trade and portfolio management businesses and societies operate, including the technological and social challenges faced by the finance-based professions.

Digital Innovation Management

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2:2 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £26,500

Programme overview

The Digital Innovation Management MSc is aimed at providing students with a unique opportunity to combine knowledge of digital innovation with management insights and strategies, enabling you to stay ahead of one of the fastest evolving trends in the world. You will be equipped with highly sought-after skills of entrepreneurship and digital technologies in setting up and managing technology-based or other businesses and enterprises.

Through this programme, you will gain advanced knowledge and develop skills with a focus on the latest advances in digital technologies, such as Cloud Systems, Internet of Things, as well as tools for Market Analysis, Data Analytics and Machine Learning. This unique programme combines essential digital technologies knowledge with business insights and strategy skills, enabling you to increase business efficiency, reduce operational costs, access wider markets and increase revenues.

Modules

You will have the opportunity to study the following topics: innovation management; Internet of Things and applications; information management; cloud technologies and systems; cloud applications and services; entrepreneurship; strategy and planning; principles of data science; advanced big data analytics; digital technologies for market analysis; media design and production; digital application development; intellectual property; and understanding organisational failure. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete written and practical assessments. You can expect to complete essays and exams, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Career prospects

You will be equipped with highly sought-after skills of entrepreneurship and digital technologies knowledge with business insights and strategy skills, covering content marketing, enterprise marketing, digital media marketing, mobile marketing, and more. You will graduate with the key knowledge and skills required to enter a variety of roles in digital marketing professional fields. You will understand the strategies and techniques of market research and analysis, strategic marketing, consumer engagement, marketing communication, and international marketing.

Modules

You will have the opportunity to study modules which focus on the following topics: strategic marketing management; digital marketing strategies, covering consumer engagement; digital technologies for market analysis; international marketing; introduction to digital technologies; digital media audiences and markets; and principles of data science. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments, which will vary depending on the module choices you make. You can expect to complete written reports and a dissertation, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, and discussions, providing students with a comprehensive understanding of principles of digital innovation with management insights and strategies, enabling you to stay ahead of one of the fastest evolving trends in the world. You will be equipped with highly sought-after skills of entrepreneurship and digital technologies in setting up and managing technology-based or other businesses and enterprises.

Through this programme, you will gain advanced knowledge and develop skills with a focus on the latest advances in digital technologies, such as Cloud Systems, Internet of Things, as well as tools for Market Analysis, Data Analytics and Machine Learning. This unique programme combines essential digital technologies knowledge with business insights and strategy skills, enabling you to increase business efficiency, reduce operational costs, access wider markets and increase revenues.

Modules

You will have the opportunity to study the following topics: innovation management; Internet of Things and applications; information management; cloud technologies and systems; cloud applications and services; entrepreneurship; strategy and planning; principles of data science; advanced big data analytics; digital technologies for market analysis; media design and production; digital application development; intellectual property; and understanding organisational failure. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete written and practical assessments. You can expect to complete essays and exams, as well as presentations, proposals, projects and reports in some cases. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

Graduates of this programme will possess the technical ability and management skills to launch their own businesses and enterprises. Others may join a start-up or other established tech-focused enterprises.

Digital Marketing

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2:2 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £26,500

Programme overview

The Digital Marketing MSc is aimed at providing students with the knowledge and skills to harness the latest advances in digital technologies, such as Cloud Systems, Internet of Things, as well as tools for Market Analysis, Data Analytics and Machine Learning. This unique programme combines essential digital technologies knowledge with business insights and strategy skills, covering content marketing, enterprise marketing, digital media marketing, mobile marketing, and more. You will graduate with the key knowledge and skills required to enter a variety of roles in digital marketing professional fields. You will understand the strategies and techniques of market research and analysis, strategic marketing, consumer engagement, marketing communication, and international marketing.

Modules

You will have the opportunity to study modules which focus on the following topics: strategic marketing management; digital marketing strategies, covering consumer engagement; digital technologies for market analysis; international marketing; introduction to digital technologies; digital media audiences and markets; and principles of data science. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments, which will vary depending on the module choices you make. You can expect to complete written reports and a dissertation, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, and discussions, providing students with a comprehensive understanding of principles of digital innovation with management insights and strategies, enabling you to stay ahead of one of the fastest evolving trends in the world. You will be equipped with highly sought-after skills of entrepreneurship and digital technologies in setting up and managing technology-based or other businesses and enterprises.

Through this programme, you will gain advanced knowledge and develop skills with a focus on the latest advances in digital technologies, such as Cloud Systems, Internet of Things, as well as tools for Market Analysis, Data Analytics and Machine Learning. This unique programme combines essential digital technologies knowledge with business insights and strategy skills, enabling you to increase business efficiency, reduce operational costs, access wider markets and increase revenues.

Modules

You will have the opportunity to study the following topics: innovation management; Internet of Things and applications; information management; cloud technologies and systems; cloud applications and services; entrepreneurship; strategy and planning; principles of data science; advanced big data analytics; digital technologies for market analysis; media design and production; digital application development; intellectual property; and understanding organisational failure. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete written and practical assessments. You can expect to complete essays and exams, as well as presentations, proposals, projects and reports in some cases. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Career prospects

Graduates will be equipped with the latest insights into consumer behaviour and business operations online, and will be well placed to enter senior roles in brand management, marketing communications, social media marketing and digital marketing.

Graduates of this programme will possess the technical ability and management skills to launch their own businesses and enterprises. Others may join a start-up or other established tech-focused enterprises.

LONDON INSTITUTES
INSTITUTE FOR DIGITAL TECHNOLOGIES
The Institute for Diplomacy and International Governance offers master’s programmes that keep pace with the changing realities of today’s world. The Institute works with our students to develop tools to grasp these facts of international life, and to prepare our students for careers across many professions.

Loughborough University London is situated within easy reach of London’s principal diplomatic missions, government departments and media and financial centres, alongside the headquarters of many major multinational organisations. Our London location means you will have the opportunity to build a professional learning experience that is tailored to your future career goals.

Outstanding teaching and research
Our programmes are designed to involve you with many different aspects of contemporary diplomacy and international governance. Experts from academia, government and industry will share their insights (and secrets, in some cases) to guide and support your own discoveries and learning.

You will work collaboratively with academic staff and each other to enrich your studies, and will have the opportunity to become experts in topical issues such as the repercussions for global politics and trade of the UK’s exit from the EU (Brexit) and the Covid-19 health pandemic.

Our academics are renowned for their research and insights into some of the world’s most pressing issues and trends, including economic development and sustainability, digital diplomacy, environmental security, the governance of global cities, the leadership of crisis and the politics of minority representation. We work with our students to develop their professional skills in diplomatic communication, multi-stakeholder negotiations, advocacy and public affairs amongst others.
Research opportunities

Academics from the Institute for Diplomacy and International Governance offer research expertise and experience in a wide range of subject areas. They are extremely well-networked with professionals outside of academia in their respective fields. In some cases, the Institute can provide joint supervisory arrangements with colleagues from other Loughborough University London institutes and from research teams based at Loughborough University’s East Midlands campus, for example the School of Social Sciences and Humanities.

The Institute currently welcomes applications in the following areas of research. These are not exclusive and we encourage potential candidates to contact the Institute before submitting an application:

- the European Union (including its institutions; member state domestic politics; EU-Russia relations; the EU as a foreign policy and diplomatic actor; the politics, diplomacy and governance of Brexit; the UK as a global actor post-Brexit; Brexit and its effect on the UK; the rest of the EU and Europe more broadly)
- the UK and transatlantic relations, especially their security dimensions
- London and other global cities
- political representation and participation of minority and marginalised communities, particularly Roma across central and eastern Europe, but also LGBTIQ communities
- minorities and international governance and diplomacy
- visual culture and political voice
- critical and normative approaches to diplomacy
- international political communication and diplomatic discourse
- Russia-West relations
- contemporary political leadership
- the politics of crisis
- business diplomacy

We currently supervise PhDs in the fields of UK immigration policy and governance; public policy regarding radicalisation and extremism in the UK; the Europeanisation of Northern Ireland and political identity in the time of Brexit; narratives and myths of contemporary Polish foreign policy; public and cultural diplomacy with regards to women as agents of change in Ukraine; and experimental governance in times of crisis (Brexit, Covid-19 and the climate).

Career prospects

As well as providing a route into academia, studying a PhD will give you the opportunity to develop the expertise and skills required to advance your career in a wide range of professions, vocations and businesses.

Taught programmes

Diplomacy, Business and Trade

MSc

Full-time length: 1 year
Part-time length: Up to 4 years
Entry requirements: A 2.2 honours degree or equivalent international qualification in a wide range of subjects.
Fees: UK: £11,300  International: £20,500

Programme overview

Our Diplomacy, Business and Trade MSc provides an extensive overview of the practices of international business diplomacy. The challenges of trading in the global village and the multiple communities and markets driving world commerce through new and old trade routes are dissected in this programme.

You will learn in an environment that is tailor-made to develop the skills needed to critically understand globalisation, as well as the knowledge of the current issues characterising relations between diplomacy, international business, and international trade.

Modules

You will have the opportunity to study modules including: Diplomacy Today (covering concepts and controversies in diplomacy and international governance); Inside the Profession (diplomacy, negotiation and lobbying); Foreign Policy Analysis; Global Economic Governance; Cities in Diplomacy and International Governance; and Digital Diplomacy.

You will also complete a Collaborative Project and a Dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. Time-limited assignments may also form a small part of the assessment mix. Information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

Graduates of this programme will be equipped with the skills and knowledge required to pursue careers in international business, business and corporate diplomacy, negotiations and political analysis for government, international organisations, non-governmental bodies, and business alike. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking a PhD programme.
Security, Peace-building and Diplomacy

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Up to 4 years  
**Entry requirements:** A 2:2 honours degree or equivalent international qualification in a wide range of subjects.  
**Fees:** UK: £11,300   International: £20,500

**Programme overview**

This programme explores the link between national and global security, and the role of peace-building in the development of multi-layered communities and nations. You will benefit from specialised, systematic and in-depth guidance which is focused on the relationship between diplomacy, international security and peace-building.

You will utilise appropriate theories, concepts and methods associated with this area, whilst exploring the relationships between development and peace-building, civil-military relations, cyber security, and the wider global security context in which politics, trading and conflicts occur.

**Modules**

You will have the opportunity to study modules including: Diplomacy Today (covering concepts and controversies in diplomacy and international governance); Inside the Profession (diplomacy, negotiations and lobbying); Foreign Policy Analysis; Peace-building; International Security; and the Politics and Practices of International Negotiations. You will also complete a Collaborative Project and a Dissertation.

**How you will be assessed**

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. Time-limited assignments may also form a small part of the assessment mix. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

**How you will study**

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

**Career prospects**

Graduates from this programme will be ready to pursue a career in diplomacy (traditional and otherwise), particularly in the areas of international security and peace-building. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking a PhD programme.

Risk, Governance and International Management

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Up to 4 years  
**Entry requirements:** A 2:2 honours degree (minimum of 55% overall) or equivalent international qualification.

**Fees:** UK: £15,300   International: £27,300

**Programme overview**

Our Risk, Governance and International Management MSc is a joint degree from the Institute for International Management and the Institute for Diplomacy and International Governance.

By studying this programme, you will develop a comprehensive understanding of the strategies used by multinational companies to manage risks arising from their environment. Please see p186 for more information.
The Institute for Innovation and Entrepreneurship is committed to delivering challenging, career-enhancing programmes that look to offer real value to individuals and organisations across the globe.

The Institute combines expert teaching and research support alongside an exciting series of masterclasses and public lectures from international business leaders across the world.

Each programme encourages students to develop the knowledge and competences necessary to establish, grow and manage new entrepreneurial ventures, as well as recognise and exploit opportunities within established organisations. The Institute is fully committed to delivering research-led teaching and employs leading academics in the fields of entrepreneurship and innovation to fulfil this goal.

Inspiring location
London is one of the top cities in the world for business, finance and trade, and is a unique learning environment for students from the Institute for Innovation and Entrepreneurship to exploit.

There is a creative and entrepreneurial culture on campus, which has enabled students at Loughborough University London to achieve great things, like forge new business plans, grow niche new start-ups and share innovative solutions to business problems.

Students and staff enjoy working together as part of extracurricular, entrepreneurial teams and attend various conferences, competitions and hack events throughout the year.

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Our programmes

Research opportunities p178
Entrepreneurship and Innovation Management MSc p179
Entrepreneurship, Finance and Innovation MSc p179
Managing Innovation in Creative Organisations MSc p180

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Thanakorn
Entrepreneurship and Innovation Management MSc

“The enterprise team on campus is impressive – they regularly organise guest speakers and skills sessions to inspire us and improve our employability.”

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Innovation and Entrepreneurship

The Institute for Innovation and Entrepreneurship is committed to delivering challenging, career-enhancing programmes that look to offer real value to individuals and organisations across the globe.

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Lboro.ac.uk/pg/innovation
Our areas of research
The Institute for Innovation and Entrepreneurship is committed to delivering research that is academically excellent and adds social value by addressing some of the problems facing the world today. This type of research is particularly relevant for those with a research interest in entrepreneurship and innovation. Our key areas of interest are listed below:

**Corporate Governance**
- state capitalism
- corporate governance: board structures
- comparative corporate governance
- corporate data responsibility and big data
- executive compensation, executive turnover and impact on decision-making

**Digital Innovation**
- digital enterprise
- online entrepreneurial activity

**Disruptive Technologies**
- redistributed manufacturing
- maker-spaces
- big data
- data-enabled capabilities
- Internet of Things

**Entrepreneurship and Innovation**
- formal and informal entrepreneurship
- university spin-outs
- contextual influences on strategic entrepreneurship
- corporate entrepreneurship
- social entrepreneurship
- creative and cultural industries enterprise
- ethnic minority enterprise
gender, intersectionality and entrepreneurship
- business model innovation
- entrepreneurship ecosystem
- innovation ecosystem

**Family Businesses**
The impact of 'family' on firm strategy, decision-making, and ultimately firm survival including but not limited to:
- innovation and entrepreneurship
- new business formation
- governance including boards, trustees, and family councils
- corporate social responsibility
- the darker side of family firms (employee relations, family exit, firm failure)

**Career prospects**
As well as providing a route into academia, studying a PhD will give you the expertise and skills required to advance your career in a wide range of professions, vocations and businesses.

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**Fees**
The fees for the programmes are as follows:

**PhD**
- UK: £15,300
- International: £27,300

**MSc**
- UK: £15,300
- International: £27,300

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**Career prospects**
Graduates will possess the knowledge and expertise required to set up their own venture, and will also have the skills needed to progress into roles involving research and design management, product development, market research and corporate management.

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**Entrepreneurship, Finance and Innovation**

**MSc**
- Full-time length: 1 year
- Part-time length: Up to 4 years

**Entry requirements**
Minimum of a 2:2 (55% or above) or equivalent international qualification.

**Programme overview**
Our Entrepreneurship, Finance and Innovation MSc analyses the entrepreneur, the innovation process and the role of financial support when creating, growing and sustaining start-up companies and organisations. This programme will give you the skills and knowledge needed to assess market needs and develop new and improved products. To put your new skills and experiences into practice, you will spend the duration of a module with a group of students to solve a real social or business problem.

The latest research on innovation and entrepreneurship feeds directly into the curriculum. This includes research into family businesses, venture capital and private equity, digital entrepreneurial activity, social network analysis, social entrepreneurship, governance, executive compensation and crowdfunding.

**Modules**
You will have the opportunity to study modules on the following topics: innovation management; entrepreneurship; new venture creation; funding; business statistics; managerial economics; family businesses; intellectual property; network analysis, social entrepreneurship, governance, private equity, digital entrepreneurial activity, social network analysis, social entrepreneurship, governance, executive compensation and crowdfunding.

**How you will be assessed**
You can expect to complete essays and reports of varying lengths, as well as presentations, projects and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

**How you will study**
You will study through a series of lectures, seminars, project work and independent study. You will also be expected to take part in guest lectures and seminars on a range of topics.

**Career prospects**
Graduates will have an understanding of the scalable finance models required to set up their own venture, and will possess the skills required to work in finance management positions within a company of any size.
Managing Innovation in Creative Organisations

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: Minimum of a 2:2 (55% or above) or equivalent international qualification.

Fees: UK: £15,300  International: £27,300

Programme overview
Our Managing Innovation in Creative Organisations MSc will encourage you to think analytically, plan strategically and act creatively to develop innovation processes in the creative industries.

Through academic and action-based learning, you will gain insight into the diverse environments in which creative industries exist and apply theory to assess and investigate the complex factors affecting the innovation process.

Future-orientated, user-focused design and strategy tools will help you to develop viable innovative and entrepreneurial solutions to social problems. Your research, communication, leadership and team-working skills will be developed through project-based learning, which will enhance your effectiveness in a contemporary business environment.

Modules
You will have the opportunity to study modules on the following topics: innovation management; design thinking for innovation; entrepreneurship; designing innovation for the future; intellectual property; new venture creation; creative business models; family businesses; institutional foundations of capitalism and entrepreneurship; business statistics; managerial economics; and understanding organisational failure.

You will also complete a collaborative project and a research-based dissertation which can be independent or project-based with an organisation.

How you will be assessed
You can expect to complete essays and reports of varying lengths, as well as presentations, projects and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study
You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects
This programme will prepare you for a career in the creative industries, either as the founder of a new start-up, or as part of an established organisation or business.

“The academics at Loughborough University London always have something new to offer in every session. With guest speakers and industry experts, you wouldn’t want to miss your chance to learn from the industry’s experts.”
The Institute for International Management aims to become the leading centre for training and research into the successful management of international organisations across different national contexts.

The Institute is led by a team of highly ranked scholars with commanding knowledge of a range of aspects of international management. The Institute is actively engaged in international research projects concerning the globalisation of economic activity and the implications for patterns of work, sustainability, risk and governance. It has also developed considerable expertise and collaborations in a range of emerging market economies including Argentina, China, Brazil, and Kenya.

Innovative teaching and research
The Institute for International Management incorporates an interdisciplinary group of internationally renowned researchers covering various disciplines relevant to International Management. These areas include International Human Resource Management, Cross-cultural Management, Corporate Social Responsibility, Corporate Political Activity and Political Economy. The Institute has an impressive track record of securing grants from national and international research councils, and academic staff are often published in leading journals across many different fields.

Each programme offers teaching from world-leading academics and aims to deliver research-led teaching to its students. The Institute for International Management at Loughborough University London is committed to helping you develop the skills and attributes you need to progress successfully into a wide range of management careers.

Inspiring location
London, one of the world’s leading hubs for global business and trade, is the ideal location for students to expand their knowledge, expertise and networks. Our inspiring location offers a unique learning environment for anyone who shares a passion for international business, as Loughborough University London is surrounded by key influencers and innovators in business, and is just a short journey from Canary Wharf, London Bridge and Liverpool Street.

Our programmes
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International Human Resource Management MSc p185
International Management MSc p185
International Management and Emerging Economies MSc p186
Risk, Governance and International Management MSc p186

Lboro.ac.uk/pg/international-management
Research opportunities

PhD: 3 years full-time; 6 years part-time
Entry requirements: A 2:1 honours degree or equivalent international qualification.
Fees: UK: see website International: £18,100

If you are interested in globalisation and the contemporary changes in the world economy, or the rise in economic and political power of the BRIC countries and other emerging market economies, a PhD with the Institute for International Management could be for you.

By undertaking research with the Institute for International Management, you will develop a range of new skills through creative thinking, analytical reasoning and real-life problem solving. Presenting at research conferences and events will also enable you to improve your speaking and networking skills, and could provide you with new opportunities to travel overseas.

The Institute for International Management is led by a team of world-class scholars, with an impressive track record of attracting high-profile research grants for research into many aspects of international management.

Taught programmes

International Human Resource Management

MSc

Full-time length: 1 year
Part-time length: Up to 4 years
Entry requirements: A 2:2 honours degree (minimum of 55% overall) or equivalent international qualification.
Fees: UK: £15,300 International: £27,300

Programme overview

This interdisciplinary programme will give you an in-depth understanding of the different national, institutional and cultural contexts in which firms operate, whilst developing essential analytical skills to prepare you for a career in the global economy.

You will also gain a broad, analytical and integrative understanding of diverse national contexts and their effect on economic activity around the world. You will study how emerging markets contexts influence the strategies of firms operating in these countries and will discover how to apply this knowledge to real-life examples.

As a student you will benefit from the inspiring environment provided by London as a global city and from guest lectures delivered by entrepreneurs and business leaders across a range of industries.

Modules

You will have the opportunity to study modules on the following topics: management; international business and entrepreneurship in developing economies; accounting and financial management; global strategy; international marketing; international HRM; information systems; corporate social responsibility; and corporate governance, the state, and development. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

This programme will prepare you for employment in a wide range of careers including consultancy as a functional specialist and general management in the private or public sector.
International Management and Emerging Economies

MSc

Full-time length: 1 year
Part-time length: Up to 4 years
Entry requirements: A 2:2 honours degree (minimum of 55% overall) or equivalent international qualification.
Fees: UK: £15,300 International: £27,300

Programme overview
Our International Management and Emerging Economies MSc will provide you with a comprehensive and integrated understanding of the particular challenges facing firms in emerging economies.

Specific issues include the process of economic reform, the pressures of globalisation and the opportunities for internationalisation at firm-level.

The Institute maintains a research interest in the comparative analysis of countries’ institutional set-ups and how diverse national contexts affect economic activity around the world. This research is fed into the teaching of this programme to ensure you graduate with an understanding of the latest opportunities and pressures facing organisations in emerging economies.

Modules
You will have the opportunity to study modules on the following topics: management; international business and entrepreneurship in developing economies; global strategy; corporate governance, the state and development; institutional foundations of entrepreneurship and capitalism; the BRICS and the changing world order, and human resources in emerging economies. You will also complete a collaborative project and a dissertation.

How you will be assessed
You can expect to complete essays and reports of varying lengths, as well as presentations, projects and exams. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study
You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects
This programme is suited to individuals who are looking to develop expertise in international management with knowledge of the issues facing emerging economies that are in transition and are becoming increasingly integrated into the global economy.

Risk, Governance and International Management

MSc

Full-time length: 1 year
Part-time length: Up to 4 years
Entry requirements: A 2:2 honours degree (minimum of 55% overall) or equivalent international qualification.
Fees: UK: £15,300 International: £27,300

Programme overview
You will develop a comprehensive understanding of the strategies used by multinational companies to manage risks arising from their environment.

You will acquire the increasingly valuable knowledge and skills required to identify, evaluate and respond to risks facing multinational organisations operating in a rapidly changing global context. Co-taught with our Institute for Diplomacy and International Governance, you will examine in interdisciplinary fashion how companies use corporate political activity, corporate social responsibility and corporate governance to navigate opportunities and challenges arising from changes in international economic governance, foreign policy and international politics.

Whether your goal is to lead your own global business or support the success of an existing organisation, you will be encouraged to make the most of the campus’ iconic location and build professional relationships with organisations in London that interest you the most.

Modules
You will have the opportunity to study modules on the following topics: management; international business and entrepreneurship in developing economies; corporate governance, the state and development; corporate political activity; corporate social responsibility and corporate governance to navigate opportunities and challenges arising from changes in international economic governance, foreign policy and international politics.

How you will be assessed
You can expect to complete essays and reports of varying lengths, as well as presentations, projects and exams. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study
You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects
This programme is suited to individuals looking for management roles with a focus on risk and the impact of social, national, political and regulatory environmental changes.
The Institute for Media and Creative Industries is dedicated to sharing critical understandings and developments of the media and creative industries, along with insights into the broader economic, social and political issues facing each area.

The Institute is a multi-disciplinary and international academic community, with commanding knowledge and expertise of the media and related industries and organisations, including the press, film, television, social media, arts, tourism and international development industries.

London is one of the world’s principal hubs for media and communication and is the primary destination for many national and international agencies operating in the media and creative industries. Loughborough University London is located in East London, which is home to more artists and creatives than anywhere else in Europe.

World-leading research
The Institute for Media and Creative Industries provides students with a profound understanding of how the media and creative sectors operate by sharing knowledge and expertise from a range of industries, including film, television and the press; social media, and the Internet; the arts, tourism and international development.

The Institute includes an internationally renowned research community who share an interest in the infrastructures, outputs, and audiences of the media and the creative industries, as well as in the communication practices, everyday experiences and social change processes influenced by these industries.

Our programmes

Research opportunities  p190
Global Communication and Development MA  p191
International Development MA  p191
International Sustainable Development MA  p192
Media and Creative Industries MA  p192
Media, Communications and Cultural Management MA  p193

lboro.ac.uk/pg/media
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification.

Fees: UK: see website International: £18,100

The Institute for Media and Creative Industries boasts a talented, international and close-knit research community, with a shared passion for the growth and impact of research on communication and media content, technologies and structures. By pursuing a postgraduate research programme within the Institute for Media and Creative Industries, individuals will have the opportunity to work with top researchers in the field and gain first-hand experience of real-life problem solving.

If you are interested in undertaking theoretically informed research that aims to impact the policies and practices of the media and communications industry, informed research that aims to impact the policies and practices of the media and communications industry, the Institute for Media and Creative Industries could be for you.

Our areas of research

The Institute maintains a strong interest in the relationships between media and communication and technological, social and cultural change. Current research considers the implications of technological transformations and social change, including social, cultural, political and economic relationships and movements, as well as social media and activism in contemporary and historical contexts.

Much of the research in the Institute is collaborative and interdisciplinary, connecting to local and global communities and organisations. The Institute also works with community groups, cultural institutions and global agencies to explore the applications of their latest research.

As a whole, the Institute has a particular strength in ethnography, participatory approaches, oral histories, archival research and textual analysis. The Institute explores the application of these methodological approaches to critical studies of gender, sexuality, identity, race and ethnicity. The Institute is also interested in notions of mobility (people and technologies), place, creativity and labour, and the communication practices and infrastructures that connect and disconnect, enable and constrain.

Our academics cover a range of research interests including legacy and new media and communication structures, regulations and practices. The Institute has experience of conducting empirical research across the globe and is particularly interested in global perspectives on media, communication and social change.

Career prospects

As well as providing a route into academia, studying a PhD will give you the expertise and skills required to advance your career in a wide range of professions, vocations and businesses.

Doctoral Training Partnership (DTP)

The Institute for Media and the Creative Industries participates in the AHRC techné DTP, in partnership with eight institutions from across the South East. The programme aims to support outstanding students pursuing the ‘craft’ of research through innovative, interdisciplinary approaches with an emphasis on creativity and practice.

Taught programmes

Global Communication and Development

MA

Full-time length: 1 year

Part-time length: Up to 4 years

Entry requirements: A 2:1 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £20,500

Programme overview

Our Global Communication and Development MA engages with the role of media and communication in articulating processes of social change. The new media developments have prompted fresh thinking about the implications of technological change upon processes of social and political change. Set in contexts of globalisation, the three central questions addressed by the programme include: what kind of communications revolution does this signal; what kind of social change processes are we experiencing; and what are the conceptual tools we need in order to understand such transformations and dynamics?

You will develop a deep understanding of communications and development in a changing global context. You will consider major traditions, theories and frameworks of inquiry relevant to the analysis of global communications and development.

Modules

You will have the opportunity to study modules on the following topics: critical studies of globalisation, media and social change; researching media industries; critical studies of the global south; social identities and media; media audiences and users; and the BRICS and the changing world order. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

Graduates are highly qualified to work in a variety of communication and development roles across a range of sectors, including tourism, the media and the government. Teaching of global communication trends means graduates will be well placed to influence communications and practices in roles across the world, especially in the Global South.

International Development

MA

Full-time length: 1 year

Part-time length: Up to 4 years

Entry requirements: Please see website for details.

Fees: Please see website for details.

Programme overview

This programme will enhance both your conceptual and practical understanding of international development. It will explore how dynamics of international development relate to processes of social change and struggles for social justice and it will place such dynamics in the changing global contexts. While this master’s programme is designed with a particular focus on the global south, it recognises the interconnectedness of world development. By studying an International Development MA at a time of such dynamic change, you will critically reflect upon a breadth of major traditions, theories and frameworks of inquiry relevant to the contemporary challenges of international development.

For more details please see lboro.ac.uk/pg/media
### International Sustainable Development

**MSc**

- **Full-time length:** 1 year
- **Part-time length:** Up to 4 years

**Entry requirements:** Please see website for details.

**Fees:** Please see website for details.

**Programme overview**
Our International Sustainable Development MSc will enhance both your conceptual and practical understanding of international development in the context of Sustainable Development Goals and the urgent global challenges that they strive to address. The programme aims to develop your critical understanding of, and provide practical insight into, how international development works. The theoretical inquiry will go hand in hand with a practical orientation to the field, and will be contextualized within analyses of the broader economic, social, technical and political issues influencing the field today, for example questions around sustainability, climate change, disaster risks, inequality, security, migration, and citizen engagement.

For more details please see lboro.ac.uk/pg/media

### Media and Creative Industries

**MA**

- **Full-time length:** 1 year
- **Part-time length:** Up to 4 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification.

**Fees:**
- UK: £11,300
- International: £20,500

**Programme overview**
Our Media and Creative Industries MA programme explores media and cultural theories, as well as political, gender and social movements. You will examine the ways in which individuals, groups, and organisations produce, consume and use media to fashion identities and forge relationships, whilst considering the influence of history, cultural policy, gender, language, race, sexuality and social movements. You will learn from a passionate faculty of leading academics, offering a vibrant insight into the media and creative industries, information science, law, anthropology, political economy, social theory, ethnic studies and more.

**Modules**
You will have the opportunity to study modules on the following topics: media and creative industries: contexts and practices; researching media industries; media and creative industries: critical perspectives; global cities, media and communication; media audiences and users; social identities and media; media and social movements; and the BRICS and the changing world order. You will also complete a collaborative project and a dissertation.

**How you will be assessed**
You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies in some cases. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

**How you will study**
You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

**Career prospects**
Graduates are highly qualified to work in a variety of media and creative roles across a range of sectors. Previous graduates have progressed into senior and executive-level roles in public relations, advertising, marketing, tourism and journalism.

### Media, Communications, and Cultural Management

**MA**

- **Full-time length:** 1 year
- **Part-time length:** Up to 4 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification.

**Fees:**
- UK: £11,300
- International: £20,500

**Programme overview**
Our Media, Communications and Cultural Management MA is designed to help you acquire practical skills on how to manage various cultural industries sectors from a comparative and international perspective and through sustainable policymaking and communication planning. This programme will enable you to master both the inner-workings of various media and communications sectors and larger external forces at play so you can respond to the national and global challenges of a changing political, cultural and economic environment effectively.

You will gain exposure to various institutional settings via modules carefully designed to offer a hands-on practical cultural management experience.

**Modules**
You will have the opportunity to study modules on the following topics: cultural management; media, communications and cultural policy; researching media industries; network information and communications policy; media audiences and users; social identities and users; media and social movements; and the BRICS and the changing world order. You will also complete a collaborative project and a dissertation.

**How you will be assessed**
You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

**How you will study**
You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

**Career prospects**
Graduates will be highly qualified to work in a variety of cultural management, regulatory and policy-making roles for non-governmental organisations, charities, media agencies, museums, arts and heritage institutions, and administrative positions in both public and private media and communications-related fields.
The Institute for Sport Business works to continue the legacy of the London 2012 Olympic Games by delivering a dynamic and innovative range of contemporary programmes to deliver excellence across the sport business sector.

Named as the world’s best university for sports-related subjects for four consecutive years (QS World Rankings by Subject 2017, 2018, 2019 and 2020), Loughborough has an outstanding reputation for developing the world’s leading graduates in sport business.

The Institute for Sport Business includes an interdisciplinary, research-led team, incorporating internationally recognised researchers interested in the business of sport.

The Institute seeks to deliver research with a real-world impact in an era of significant social, economic and technological change.

Recent research has examined the rapid growth in the business of sport, as well as leadership, change, and culture, consumer engagement, digital technologies in sport, and social responsibility and innovation.

Unrivalled location
London is rapidly becoming the world’s leading hub for sport business and is the ideal location for students to expand their knowledge, expertise and networks. Loughborough University London is surrounded by key influencers and innovators in the field of sport, including BT Sport, the Olympic Legacy Corporation and West Ham United Football Club.

The Institute is proud to partner with a number of London-based leaders in sport, including BT Sport, CSM Strategic, West Ham United Foundation, Global Sports, Chelsea Football Club, the Sport Industry Group, Two Circles, Foundation for Leadership through Sport, the Sport Technology Awards, Mill Harbour Marketing and Octagon.

Our programmes

- Research opportunities p196
- Sport Analytics and Technologies MSc p197
- Sport Business and Innovation MSc p197
- Sport Business and Leadership MSc p198
- Sport Marketing MSc p198

"I have been lucky enough to learn from industry professionals from all over the world who have first-hand experience, and this has been an invaluable part of my studies."

Stacey
Sport Marketing MSc

lboro.ac.uk/pg/sport-business
Research opportunities

PhD: 3 years full-time; 6 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification.

Fees: UK: see website International: £24,100

The Institute for Sport Business has an interdisciplinary research-led team, incorporating internationally recognised researchers interested in the business of sport.

If you have a passion for the business of sport, a PhD with the Institute for Sport Business could be for you. The Institute especially welcomes interest sport consumer engagement, sport enterprises and social innovation in sport.

Our areas of research

Research by the Institute for Sport Business focuses on money, morality and meaning, and the implications of these factors on sport business. As such, the Institute maintains an interest in the following research topics:

- Sport consumer engagement
  - fan and consumer experiences
  - sport product and service evaluation
  - athlete and player support and welfare
- Sport enterprise performance
  - leadership and organisational systems
  - innovation and culture
  - technologies, data, analytics and futures
- Sport social innovation
  - sport development and peace
  - social impact, capital and legacy
  - sport and (C)SR

Career prospects

As well as providing a route into academia, studying a PhD will give you the expertise and skills required to advance your career in a wide range of professions, vocations and businesses.

Taught programmes

Sport Analytics and Technologies

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2:1 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £26,500

Programme overview

You will investigate cases of data driven decision-making and strategy formulation to outline how statistical analysis and data visualisation is informing sport business trends and solutions. You will examine how the sport industry is actively embracing digital technologies to improve performance and shake-up tired and redundant business practices.

Together the faculty will introduce you to the latest research and devices driving the sport digital and media environment, and other related areas.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies in some cases. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

This programme will provide you with knowledge of the technologies driving sport digital and media development, and other related activities. You will have the opportunity to develop advanced networking skills and will work in collaboration with others in order to compete in today’s global sport business environment.

Sport Business and Innovation

MSc

Full-time length: 1 year
Part-time length: Up to 4 years

Entry requirements: A 2:1 honours degree or equivalent international qualification.

Fees: UK: £11,300 International: £26,500

Programme overview

Our Sport Business and Innovation MSc provides an understanding of key management and marketing principles, including the development of business strategies and innovation in sport.

This programme provides you with opportunities to develop innovative solutions to real problems that are currently facing sport businesses today, allowing you to gain a competitive advantage in the sector.

You will examine the rapid growth in the business of sport and its accompanying impacts in an era of significant social, economic and technological change. Through this examination you will be able to identify industry trends, understand customer needs, and establish and evaluate the organisational practices required to remain competitive in a global sport marketplace.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Career prospects

This MSc will prepare you for careers in sport, business and business innovation. Opportunities may include careers in sporting organisations, international governing bodies of sport, the government and the not-for-profit sector. You will also acquire the skills required to establish your own sport enterprise if desired.
### Sport Business and Leadership

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Up to 4 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification.

**Fees:**  
- **UK:** £11,300  
- **International:** £26,500

**Programme overview**

Our Sport Business and Leadership MSc programme is designed for individuals looking for leadership and management positions within the sport business industry. You will visit a number of influential sport leadership environments and receive guidance from top leaders in the field.

You will be immersed in the business of sport and will enhance your professional leadership capacity and business acumen in relation to a global sport business environment. You will also be exposed to some of the latest opportunities and challenges confronting sport organisations at a global, national and local level.

You will learn how to connect theory with practice by attending a number of inspiring field visits. Past visits have included Sandhurst Military Academy, The Royal Opera, UK Sport, KPMG, the RFU, Google, and Wimbledon.

**Modules**

You will have the option to study modules on the following topics:  
- leadership models and practices: application to a sport context; leadership, diversity and change in the sport industry; sustainability and leadership for sport organisations; critical reflective leadership and sport management practice; sports business and innovation; sport integrity; new media and analytics for sport business; research and insights into sport business; sport business statistics and analytics; leadership and sport management practice; sports business acumen.

**How you will study**

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

**Career prospects**

This MSc will prepare you for careers in middle and senior leadership positions in a range of sectors, including commercial, not-for-profit and international sporting organisations. You will also have access to training and development to establish your own sport enterprise.

### Sport Marketing

**MSc**

**Full-time length:** 1 year  
**Part-time length:** Up to 4 years

**Entry requirements:** A 2:1 honours degree or equivalent international qualification.

**Fees:**  
- **UK:** £11,300  
- **International:** £26,500

**Programme overview**

Our Sport Marketing MSc programme will enable you to develop a complex understanding of the latest sport marketing and business management techniques. You will discover the latest sport marketing tools used by real organisations in the industry, and you will analyse and evaluate some of the challenges faced by sport marketers today.

You will discover how to create successful sport marketing strategies using market research, targeted marketing techniques and marketing communications knowledge, as well as project management and campaign monitoring skills. Alongside teaching of sport marketing theory and practice, as part of your Sport Marketing MSc you will gain hands-on experience with project planning and industry collaboration.

**Modules**

You will have the opportunity to study modules on the following topics:  
- sport marketing; strategic sport sponsorship; international marketing; design innovation project; sport economics and law; strategic marketing management; sport business statistics and analytics; digital sport technologies: evolution and application; sport integrity; sports business and innovation; research and insights into the sport industry; and new media analytics for sport business. You will also complete a collaborative project and a dissertation.

**How you will be assessed**

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

**How you will study**

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

**Career prospects**

Graduating from this programme will provide you with job opportunities in brand management, marketing communications, social media marketing, sponsorship account management, and digital marketing. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking a PhD programme.

“Assignments have often been in partnership with industry, which has allowed me to work on real-life projects and issues.”

[Image: lboro.ac.uk/pg/sport-business]
The application process and funding options for postgraduate study are different to those at undergraduate level, and even more so if you previously studied outside the UK.

The next section includes useful information on how to apply, tuition fees and potential sources of funding.
FEES AND FUNDING

Studying a postgraduate programme at Loughborough University is a significant but incredibly rewarding investment in your future.

Tuition fees

What’s included

Tuition fees cover the cost of your registration, teaching, assessments and access to facilities such as the library, IT equipment and other support services. The cost of tuition fees does not cover general study costs for books, stationery and personal IT equipment. Additional costs may apply for some programmes, such as the cost of lab safety equipment, field trips and craft materials.

Part-time and continuing students

Fees are reviewed annually and are likely to increase to account for inflationary pressures. Therefore, if your programme is studied full-time or part-time over two or more academic years, the fee amount for your second (and subsequent years) will be higher.

Research funding

University studentships

Our studentships typically cover the full cost of fees and may also include a tax-free stipend for living costs. In some cases, additional funding will be provided for research support expenses. These studentships are advertised on our website: lboro.ac.uk/pg/research-opportunities

Loughborough Alumni Bursary

Loughborough University is proud to offer 20% towards the full cost of tuition fees for self-funding postgraduate research students who obtained their previous degree from Loughborough University. Students must not be in receipt of any other award.

Other sources of funding

A large number of independent organisations, charities and trusts support postgraduate research in a variety of areas. UK Research Councils offer studentships and grants for doctoral study, which often include the cost of fees and a generous stipend. These studentships are advertised on our website: lboro.ac.uk/pg/research-opportunities

International PhD funding

International students may be eligible for funding from grant-awarding bodies in their own country, such as the Ministry or Department of Education. The British Council also manage a small number of international grants.

UK Government Doctoral Loans

If you are a UK student living in England, you may be eligible to apply for a loan to support the cost of your studies (up to £11,222 in the 2020/21 academic year).* Loan repayments will begin after you have completed your programme and have an annual income of over £21,000. Students from Scotland, Wales and Northern Ireland also have access to government funding for postgraduate study. Find out more: gov.uk/master-loan

Bench fees

Bench fees will apply to a small number of research students where the proposed research project is expected to incur larger than average costs. The bench fee will be made clear on any offer letter issued by the University.

Master’s funding

University scholarships and bursaries

Our scholarships and bursaries range from 10% to 100% towards the cost of postgraduate taught tuition fees, with funding also available for talented arts students and athletes. Find out more: lboro.ac.uk/pg/fees-funding

Loughborough Alumni Bursary

As a Loughborough graduate, you’ll receive our alumni bursary of up to 10% of the tuition fees for your postgraduate taught programme.

This bursary is available to all self-funding full-time UK, EU and international students who are not in receipt of any other award. Find out more: lboro.ac.uk/pg/fees-funding

Other sources of funding

There are a number of other sources that could help you to fund your studies. Many trusts and charities offer grants, awards and loans for postgraduates in a range of subjects. Find out more: lboro.ac.uk/pg/fees-funding

Research funding

University studentships

Our studentships typically cover the full cost of fees and may also include a tax-free stipend for living costs. In some cases, additional funding will be provided for research support expenses. These studentships are advertised on our website: lboro.ac.uk/pg/research-opportunities

Loughborough Alumni Bursary

Loughborough University is proud to offer 20% towards the full cost of tuition fees for self-funding postgraduate research students who obtained their previous degree from Loughborough University. Students must not be in receipt of any other award.

Other sources of funding

A large number of independent organisations, charities and trusts support postgraduate research in a variety of areas. UK Research Councils offer studentships and grants for doctoral study, which often include the cost of fees and a generous stipend. These studentships are advertised on our website: lboro.ac.uk/pg/research-opportunities

International PhD funding

International students may be eligible for funding from grant-awarding bodies in their own country, such as the Ministry or Department of Education. The British Council also manage a small number of international grants.

UK Government Doctoral Loans

If you are a UK student living in England, you may be eligible to apply for a loan to support the cost of your studies (up to £11,222 in the 2020/21 academic year).* Loan repayments will begin after you have completed your programme and have an annual income of over £21,000. Students from Scotland, Wales and Northern Ireland also have access to government funding for postgraduate study. Find out more: gov.uk/master-loan

How to apply

All master’s and research degree applications can be made via the University’s online application portal (with the exception of PGCE programmes – please see below).

Applying for a master’s or research degree

Your application must be supported by documentary evidence to prove that you meet the entry requirements. This includes your academic qualifications, references and transcripts, as well as English language qualifications and a portfolio, if required. If you are awaiting results, you can upload the documents you do have and upload outstanding documents when they become available.

Additional requirements for research degrees

If you wish to apply for a studentship, you may not need to develop a research proposal; please check the advert for details.

For non-studentship applications (eg if you are self-funding or have secured funding from an external body), you will need to confirm which member of academic staff you have spoken to from the school or department and you may need to submit a research proposal. Advice on what to include in this can be found on our website: lboro.ac.uk/pg/apply

PGCE programmes

Applications to our PGCEs need to be made through UCAS and not through the Loughborough University website. You can find guidance on applying for a PGCE at ucas.com

Standard English language requirements

The standard University IELTS requirements are 6.5 overall with 6.0 in each individual element: reading, writing, listening and speaking. Some programmes may require higher English language levels; please check the programme details for exact requirements.

Part-time and continuing students

There are two intake periods for postgraduate taught programmes:

- 27 January
- 21 June

Applicants are expected to enrol in time for the January intake, with a second intake available in September. Postgraduate taught students will usually enrol in time for one of four start dates:

- 1 October
- 1 January
- 1 April
- 1 July

Students should normally take an IELTS test from a UKVI-approved test centre. We also consider Pearson PTE and some national curriculum qualifications. More information on acceptable English language qualifications can be found online: lboro.ac.uk/pg/english-language

Alternatively, you may wish to take one of our English language pre-sessional courses. Find out more: lboro.ac.uk/pg/nextsteps

What happens next?

You will receive an acknowledgement email once your completed application has been submitted and we will then start to process it – this can take up to six weeks. You can log into the application portal at any time to track the progress of your application.

If your application is successful, we will send you an email with details of any conditions you must meet before your place is confirmed.

To secure your place, you must log back into the application portal, accept the offer and upload any outstanding documents to meet any conditions of your offer.

Master’s degree intake

Teaching for all our full-time taught master’s degrees begins in late September / early October. Some part-time and distance learning programmes may have alternative start dates throughout the year.

Research degree intake

Postgraduate research students will usually enrol in time for one of four start dates: 1 October, 1 January, 1 April or 1 July.
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