Our achievements
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
Our postgraduate degrees

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

You may choose to study a postgraduate qualification to become more employable, to further your knowledge, to change your career path or just for a love of the subject!

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 (MBA).

You can find out more about our Loughborough programmes on pages 34-147 and our London ones on pages 148-191.

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

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

An MPhil is slightly shorter than a PhD. You will investigate and evaluate an area which contributes to, and demonstrates an appreciation of, existing knowledge in the subject. You will also demonstrate an understanding of the research methods appropriate to that area.

You can find out more about our research qualifications at the start of each department and institute section.

Why Loughborough?

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

Thanks to the quality of our teaching and unrivalled student experience, we consistently score highly in major national rankings. We are 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 fields. 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 being able to derive specialist skills and knowledge from top-quality research practice, our long-standing collaborative relationships with industry, public and private sector organisations 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 for a successful academic career.
Our research

As one of the UK’s top 10 research-led universities (REF 2014), Loughborough’s research is renowned for its quality and relevance, as well as its impact on society.

Joining a university with a passion for solving real-life challenges is incredibly rewarding and enhances your learning experience – it’ll be difficult not to feel inspired by what’s going on around you.

We’re proud of the research achievements of all of our academic schools and departments. Our Beacon programme identifies our world-class research strengths in areas like the Built Environment, while our Global Challenges programme brings together expertise from a broad range of disciplines to develop solutions to the biggest societal challenges of the day. Our Health and Wellbeing Global Challenge is pioneering exercise intervention as an alternative to conventional medicine, and our Energy Global Challenge is developing renewable energy technologies. We’re striving to make the world a better place. Find out more about our research: lboro.ac.uk/research

Loughborough Doctoral College

All research students at the University are members of the Doctoral College which brings together research and development activities across our campuses and supports the management and quality assurance of doctoral degrees. The Doctoral College oversees recruitment and supports our researchers to reach their full potential through a wide range of specialist and transferable skills training.

The doctoral experience

We aim to provide a community-based experience for all of our doctoral researchers through a range of seminars, conferences, networking opportunities and social events, in addition to our formal training programme. Our annual research conference attracts over 150 researchers from across the University and was named Academic Event of the Year at the Students’ Union awards in 2016 and 2017.

Professor Elizabeth Peel

Associate Pro-Vice Chancellor (Doctoral College)

"The Doctoral College supports researchers through every step of their research journey, through extensive training, collaboration and partnership.”
### 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: ShanghaiRanking top 250</td>
<td>81%</td>
<td>80%</td>
<td>78%</td>
<td>77%</td>
</tr>
<tr>
<td>China: ShanghaiRanking 251-500</td>
<td>84%</td>
<td>83%</td>
<td>81%</td>
<td>80%</td>
</tr>
<tr>
<td>China: ShanghaiRanking 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</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</td>
<td>-</td>
<td>2.8</td>
<td>-</td>
</tr>
</tbody>
</table>

The grade equivalences listed in this table should be interpreted 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.

To find out more, visit lboro.ac.uk/international

We’re a short distance from Loughborough train station and only a 15-minute drive from East Midlands Airport.

On the train...*

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leicester</td>
<td>9 minutes</td>
<td>£4.10 return</td>
</tr>
<tr>
<td>Nottingham</td>
<td>19 minutes</td>
<td>£6.00 return</td>
</tr>
<tr>
<td>Derby</td>
<td>22 minutes</td>
<td>£7.25 return</td>
</tr>
<tr>
<td>London</td>
<td>76 minutes</td>
<td>£43.55 return</td>
</tr>
</tbody>
</table>

*Cost with 16-25 railcard

Just some of the flights from East Midlands Airport...

<table>
<thead>
<tr>
<th>Destination</th>
<th>Time</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dublin</td>
<td>1 hour</td>
<td>£17</td>
</tr>
<tr>
<td>Amsterdam</td>
<td>1.25 hours</td>
<td>£39</td>
</tr>
<tr>
<td>Krakow</td>
<td>3.40 hours</td>
<td>£28</td>
</tr>
<tr>
<td>Berlin</td>
<td>1.50 hours</td>
<td>£21</td>
</tr>
</tbody>
</table>

All prices correct on 04/07/2019

Sources:
www.eastmidlandstrains.com
www.skyscanner.com
Life at Loughborough

Located in the centre of the UK, our superb 440 acre, single-site campus offers great facilities for every aspect of student life. With stunning gardens and open spaces, a rich variety of shops, cafés and leisure facilities and the most advanced sports facilities in the country, it is easy to see why Loughborough has been voted as having the best student experience (Times Higher Education Student Experience Survey 2018).

Our students benefit from a friendly and inclusive atmosphere, with comprehensive support systems and incredible opportunities to get involved in social activities, sport, volunteering and the arts. With over 21,500 students and staff from more than 130 different countries, Loughborough is the perfect place to meet people from all over the world and make memories that will last a lifetime.

To find out about student life in London, please see p24.
Loughborough student experience

Loughborough has been the UK’s best university for student experience for over ten years, according to the Times Higher Education Student Experience Survey.

Our Loughborough campus is one of the largest single-site, green campuses in the UK, yet there is still a strong sense of community amongst our students.

We work closely with LU Arts and the Students’ Union to widen your experiences and enrich your studies. With over 130 different clubs and societies, as well as sports teams, language classes, creative workshops, live performances and more, there really is something for everyone on campus.

We are passionate about providing our students with every opportunity to reach their future goals and achieve their full potential. Every student at Loughborough is provided with the encouragement and resources they need to achieve success. Our guidance and support goes beyond your studies, as every student is part of the Loughborough family for life.

Loughborough Students’ Union
Loughborough Students’ Union is here to support you throughout your student journey. LSU Advice is a service provided by the Students’ Union and provides free, independent and non-judgemental advice and guidance for students.

Loughborough Students’ Union
union@lsu.co.uk
lsu.co.uk

Lily
PhD student

“I chose Loughborough because of the sense of community around campus. Everyone has made it an enjoyable and friendly environment to be in.”
Loughborough have been British Universities and Colleges Sport (BUCS) champions for 40 years running and our hard-earned sporting reputation is something that we are incredibly proud of. Our campus is home to some of the best sporting opportunities in the world and, regardless of ability or experience, there is something to suit everyone.

State-of-the-art facilities
Loughborough University is home to 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 is equipped with the latest Technogym Artis range, including 75+ cardio and 70+ fitness machines.

Powerbase is our strength and conditioning gym, designed specifically for those looking to improve core fitness or sporting performance.

Get involved
For those with a keen interest in sport, there are over 50 student-led sports clubs to choose from. There are also opportunities to get involved in teams within the halls of residence, academic schools and departments, and societies.

The University’s recreational sports opportunities are perfect for those looking to try something new. There are over 30 activities to choose from every week, ranging from beginner’s running to UV Zumba and roller hockey to ultimate frisbee.

Find out more about sport: lboro.ac.uk/sport

lboro.ac.uk/sport
Living in Loughborough

Loughborough is a busy market town situated between Leicester, Nottingham and Derby in the East Midlands.

From Loughborough you can travel to London by rail in as little as 76 minutes, and East Midlands Airport is only a 15 minute drive, offering easy access to destinations across the world. National Express also operate a coach service directly from campus to the airport.

Loughborough town centre is a ten-minute walk from campus, or a five-minute journey on the University’s Kinch bus. In the town centre you will find a variety of well known high street shops, boutique stores and a large, outdoor twice-weekly market. Loughborough recently gained a multimillion pound cinema complex, complete with a Pizza Express, Nando’s, Starbucks and an eight-screen cinema.

loveloughborough.co.uk

Living in Loughborough

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 (UKVI) 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*.

Postgraduate accommodation

We offer four self-catered halls of residence for postgraduate students, with some located on campus and others very 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.

Falkner Eggington is close to the centre of campus and has several flats reserved for postgraduate students.

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

loughboroughstudentpad.co.uk

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

The Student Advice and Support Service offers free, confidential and impartial advice on housing issues.

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

loveloughborough.co.uk

*current for 2019 entry. For the latest requirements please see www.gov.uk/tier-4-general-visa

lboro.ac.uk/pg2020/accommodation
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.

- 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. 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 all 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.

"Throughout my time at Loughborough, the quality of support and guidance that I have received has significantly exceeded my expectations."

Maximising your career prospects

Studying a postgraduate qualification is not just about your academic programme or area of research. It is also about developing the right skills and experiences to reach your future career goals.

The University’s Careers Network can help you to understand and develop your skills, strengths and explore your future 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 the 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 support

Join our Loughborough Enterprise Network (LEN) to access opportunities to meet like-minded entrepreneurs. We can help you with business development meetings, connecting you to mentors, opportunities for your business and funding:
lboro.ac.uk/students/len

Support for entrepreneurs

Graduates can apply for a place at The Studio to grow their business and follow an intensive training and mentoring programme. We provide you with the resources, insight, funding and industry expertise you need to bring your business ideas to life.

The Studio
The.Studio@lboro.ac.uk
lboro.ac.uk/the-studio

WHATUNI STUDENT CHOICE AWARDS 2019
TOP 10 IN THE UK FOR STUDENT SUPPORT

BIGGEST ANNUAL CAREERS FAIR IN THE UK ATTRACTIONG 250+ TOP RECRUITERS EVERY YEAR

INTERNATIONAL QS STARS AWARDED FIVE STARS FOR EMPLOYABILITY

lboro.ac.uk/pg2020/support
lboro.ac.uk/pg2020/careers
Life in London

Loughborough University London is an inspiring postgraduate campus located on Queen Elizabeth Olympic Park.

The campus is part of an exciting cluster of innovators and creative makers, known collectively as Here East, which is bringing together an emerging breed of forward-thinkers and digital makers through education, business, technology and media.

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 very latest developments from within their sector.

To find out about student life in Loughborough, please see p12.
Loughborough University London is located 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 east London, and helping to shape the future of one of Europe’s most prolific art scenes.

lboro.ac.uk/pg2020/london-location
Life on Queen Elizabeth Olympic Park

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

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 17-screen cinema and futuristic bowling alley.

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

Olympic venues
Our students 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."

West End
Regarded as the home of entertainment in London, the West End is always bustling with activity, from widely-anticipated film premieres to critically-acclaimed plays, musicals and performances. The West End is also famed for its diverse range of restaurants and bars, from exquisite fine dining in Mayfair to authentic Asian cuisine in Chinatown.

Oxford Street
If you are looking for high-end fashion and the latest trends, then Oxford Street is the place to go. Located 25 minutes from campus, Oxford Street occupies all of the largest high street retailers, including Topshop, Zara and John Lewis, as well as Selfridges’ original flagship store.

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Westminster
Westminster is home to many of the UK’s most iconic attractions, including Buckingham Palace, the Houses of Parliament and Big Ben. You can reach Westminster in less than 10 minutes by using the Southeastern rail service from Stratford International station, which is just a few minutes’ walk from the campus.

Camden Town
Located 30 minutes from campus in North London, Camden Town is a fun and alternative area to shop, eat and socialise. Famous for its vibrant street market, the area attracts thousands of visitors looking for unique clothing, art and gifts.

With over 18 million visitors every year, it is easy to see why London was named the best student city in the world, according to QS Best Student Cities 2018.

London student experience

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lboro.ac.uk/pg2020/london-location
Living in London

There are a number of secure and friendly accommodation options close to campus that aim to suit every lifestyle and budget.

Unite Stratford ONE
Unite Stratford ONE offers single en-suite rooms and studio apartments within walking distance of the campus. Each room offers a private bathroom, private study area, large bed and plenty of storage, WiFi, communal cleaning and bills are included in the rental price.

Claredale House
Claredale House is 2.5 miles away from the City of London and 20-30 minutes from the campus using public transport. Set around a stunning internal courtyard, each room is centrally-heated, fully-furnished and includes internet access, making it ideal for postgraduate students.

East Village
East Village is the former Athletes’ Village of the London 2012 Olympic and Paralympic Games. Located within walking distance of the campus, East Village is ideal for couples, small groups and families. A school, nursery and state-of-the-art health centre are all close-by, as well as a number of handpicked independent retailers.

Booking and advice
Students are required to book their accommodation directly with their chosen provider, who is then responsible for managing the tenancy agreement with the student.

Student Advice and Support Service
The Student Advice and Support Service offers free, confidential and impartial advice on housing issues.

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

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.

*current for 2019 entry. Please see www.gov.uk/tier-4-general-visa for the latest requirements.

lboro.ac.uk/pg2020/london-accommodation
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 employability assessments to tasks set by real organisations and from site visits to organisation-based dissertation projects, we will connect you to a wide range of opportunities that will enhance your professional skills and experience.

Collaborative Project partners include:

- BT Sport
- Department for International Trade
- NHS
- Foster & Partners
- EDF

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, in the process of launching one, or you would simply like to get involved, our Enterprise Hub on campus and our connections to London’s startup community will give you the experiences, opportunities and insight you are looking for.

Lauren

MSc Sport Business and Innovation

“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.”

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, such as:

- health care
- mental health support
- visas and immigration
- counselling
- learning difficulties
- mitigating circumstances.

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

Loughborough Students’ Union
Loughborough Students’ Union is always here for you and is here to support you throughout your student journey. LSU Advice is a service provided by Loughborough Students’ Union and provides free, independent and non-judgemental advice and guidance for students.

Loughborough Students’ Union
union@lsu.ac.uk
lsu.co.uk/london

Disability Office
The Disability Office 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.

Disability Office
+44 (0)1509 222058
disability@lboro.ac.uk

Student Advice and Support Service
Our Student Advice and Support Service offers free, confidential and impartial advice on topics such as 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 222058
advice@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

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

lboro.ac.uk/pg2020/london-support
Loughborough schools and departments

Aeronautical and Automotive Engineering 36
Architecture, Building and Civil Engineering 40
Business and Economics 48
Chemical Engineering 64
Chemistry 68
Communication and Media 74
Computer Science 82
Creative Arts 86
Design 90
English 96
The Department of Aeronautical and Automotive Engineering is an engineering specialist centre for teaching and research. Our £14 million state-of-the-art facilities include laboratories, workshops, wind tunnels, a flight simulator and a technical display area with a recently retired military aircraft. Loughborough University’s £17 million STEMLab is adjacent to the Department and offers first class engineering, science and materials laboratories, forming a truly cutting-edge learning facility for Loughborough students.

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.

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 in Combustion System Aerothermal Processes and the Caterpillar Innovation and Research Centre in Engine Systems are both situated within the Department. There are also excellent links with a range of other top engineering companies, including BAE Systems, Bentley, Cenex, Ford Motor Company, Jaguar Land Rover, Lotus Group, Marshall Aerospace, Mercedes, Nissan, Petronas and Red Bull Racing.

Accreditation by the Institution of Mechanical Engineers (IMechE) facilitates progression towards Chartered Engineer (CEng) status after a period of relevant graduate-level employment.

Our programmes
Research opportunities p38
Automotive Engineering MSc p39
Postgraduate Certificates in Automotive Engineering PGCert p39
lboro.ac.uk/pg2020/sae
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements: An honours degree (first or 2:1) or equivalent international qualification in engineering, mathematics or science.

Fees: UK/EU: see website International: £22,350

As a research student in the Department of Aeronautical and Automotive Engineering, you will have the opportunity to not only become an independent researcher but to create a lasting network of peers. Attendance at relevant conferences is encouraged with bursaries for travel made available on a competitive basis.

You will be assigned a supervisory team who, together with the Director of Doctoral Programmes, provides 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.

Newly opened research facilities

The new £14.5 million National Centre for Combustion and Aerothermal Technology NCCAT has been built to lead research excellence and technology deployment in low emission aero gas turbines, strengthening the UK’s ability to benefit from the predicted growth in future engineering in the field of Propulsion and Power. In partnership with the Universities of Oxford and Cambridge, it will provide training in the key skills that future engineers need to become leaders in research and design. Students complete a 3-year PhD at Loughborough following the successful completion of a Masters of Research degree at Cambridge University.

Our areas of research

Aerodynamics and Flight Research

This includes the Rolls-Royce University Technology Centre (UTC) working on experimental and computational studies of gas turbine combustion systems to reduce emissions; the Ground Vehicle Aerodynamics Research Group, working with Jaguar Land Rover on drag reduction for future road vehicles; and the Centre for Autonomous Systems, working with BAE Systems and the Defence Science and Technology Laboratory on the challenges of unmanned aerial vehicles.

Low Carbon Vehicles

Research focuses primarily on low carbon vehicles, propulsion systems and autonomous transport. Experimental and computational studies and research that leads to enhanced understanding relevant to the industry is supported by AVL, Caterpillar, Ford Motor Company and Jaguar Land Rover.

The main aim is to improve vehicle efficiency and reduce emissions (including CO2). This is supported by advanced research on mapping and calibration of hybrid powertrains, as well as on fluid flow and combustion modelling. We have had successes in combustion of sustainable fuels, exhaust after-treatment systems, ultra-low emission combustion systems, fuel cells, battery technology and super-capacitor research for hybrid and electric vehicles.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) integrate PhD study with an additional year of research training and have strong industrial links. The Department of Aeronautical and Automotive Engineering participates in the EPSRC Centre for Doctoral Training in Future Propulsion and Power. In partnership with the Universities of Oxford and Cambridge, it will provide training in the key skills that future engineers will need to become leaders in research and design. Students complete a 3-year PhD at Loughborough University.

Taught programmes

Automotive Engineering

MSc

Full-time length: 1 year
Part-time length: 3 years

Entry requirements: An honours degree (2:1 or above) or equivalent international qualification in engineering or physical sciences. Applicants with a 2.2 (or equivalent) may be considered with relevant experience in the automotive industry.

Fees: UK/EU: £10,950 International: £23,500

Programme overview

Our Automotive Engineering MSc was created with industry partners, including Ford Motor Company and Jaguar Land Rover, and will provide you with knowledge and technical expertise in a wide range of automotive disciplines.

You will benefit from access to the vehicle proving ground facilities at Horiba MIRA Ltd near Nuneaton, Warwickshire. You will also have use of MATLAB and Simulink software for technical computation.

We have four major research groups working across the technologies of automotive and aeronautical engineering. Research topics range from development of new design methodologies for hybrid powertrains through to aerodynamic experiments and simulation. Teaching on the MSc is closely aligned to and informed by our research.

Modules

Study areas may include: Vehicle performance, hybrid powertrains, electrification, autonomous vehicles, system integration, calibration, vehicle dynamics, and aerodynamics. We regularly update our topic areas, so please check online for the latest available modules.

There will also be an individual research project.

How you will be assessed

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

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, and workshops. Most modules are block taught within one week to facilitate the attendance of industrial participants, and independent work continues beyond this intensive week.

Career prospects

Typical graduate careers are in the automotive industry, either at a vehicle manufacturer (OEM) or in the supply chain, with some students pursuing alternative careers in transport, production, logistics, or the financial industry. Roles range from technical, production, operational, and project management to research and development.
The School of Architecture, Building and Civil Engineering is one of the largest providers of postgraduate engineering education in the UK and one of only four Centres of Excellence in Sustainable Building Design recognised by the Royal Academy of Engineering.

Each programme provides students with the skills and knowledge required to face the challenges of today’s built environment and develop a better quality of life for people in the future.

The School has extensive links with industrial partners, resulting in postgraduates entering into roles with leading organisations such as Arup, Atkins, Balfour Beatty, Kier Group, Morgan Sindall, Oxfam, WaterAid and Transport for London.

Research has played a central role in the School for over 40 years and we continue to have a leading impact on policy and practice around the world. As a world-leading centre for transdisciplinary research, our focus is on civil infrastructure engineering, transport, architecture, building energy, construction management, and water and waste management.

Karen

MSc Construction Project Management
PhD Architecture, Building and Civil Engineering

“Loughborough has the best atmosphere for learning with friendly support; it has made me feel at home during my studies.”

Our programmes

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lboro.ac.uk/pg2020/abce
Research opportunities

PhD: 3 years full-time; 4 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements: A 2:1 honours or master’s degree or equivalent international qualification, in a related discipline.

Fees: UK/EU: see website International: £22,350

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. You will also benefit from access to our excellent facilities, including our 3,000m² laboratory area and a Director of Doctoral Programmes to provide additional guidance and pastoral support. You will also be provided with a laptop, access to our laboratory facilities, technician support, access to funds for travel and conference attendance. You will attend training courses to support your research and personal development, with opportunities to support undergraduate teaching through employment as tutorial/laboratory assistants.

Our areas of research

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 practicing architects with exciting research agendas to join our new practice-based PhD programme.

Building Energy Demand
This research group focuses on measurement and modelling to produce healthy, high-quality indoor environments with lower energy demand and CO₂ emissions. It is organised into two sub-themes: Performance Measurement and Building Physics, and Modelling and Optimisation.

Construction Technology and Organisation
One of the UK’s longest-established research groups specialising in the efficiency and performance of construction processes, products and organisations. Its sub-themes are Products and Processes, and Projects and Organisation. This research includes the performance and well-being of people, building sustainability and building information modelling.

Civil Infrastructure Engineering
Research in this area develops improved methods for modelling, analysing, designing, constructing and monitoring structural and geotechnical infrastructure systems using computational and experimental approaches.

Transport
This group conducts fundamental, innovative and policy-relevant research in the areas of air transport safety, technology and environmental sustainability.

Water Engineering and Development
Research in this area covers ecohydraulics, fluid mechanics, hydrology, disaster and risk management, water treatment and the development of sustainable and resilient water infrastructure.

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 Architecture, Building and Civil Engineering currently participates in two centres:

• EPSRC Centre for Doctoral Training in Water and Waste Infrastructure Systems Engineered for Resilience (WaterWGER), in partnership with Leeds and Cranfield University.

• EPSRC Centre for Doctoral Training in Energy Resilience and Built Environment, in partnership with University College London and MaREI Research Centre (Ireland).

Taught programmes

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.
Fees: UK/EU: £10,950 International: £23,500

Programme overview
Our Construction Management MSc enjoys a great heritage, being the longest established in the UK and the second oldest in the world. The programme is taught in close co-operation with industry practitioners and is accredited by all the relevant professional bodies.

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

Modules

Compulsory modules studied may include: ICT for Construction Projects; Research and Communication; 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 Building Information Modelling (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 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, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our graduates are sought after by a wide range of companies including Arup, Atkins, Bauer Technologies, Eurovia Group, Kier Group, Morgan Sindall, Skanska and Vinci Construction.

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/EU: £10,950 International: £23,500

Programme overview
Our Construction Project Management MSc is tailored to construction professionals looking for a more holistic perspective of construction project processes and the challenge of project management in complex building and infrastructure projects.

Competency in project management has become a key part of the skill set of every construction professional and executive, with many construction project managers functioning in a strategic and co-ordinating role in the delivery of the client’s physical development and investment programme. This MSc is designed to develop and sustain your knowledge and skills, and advance your career within the construction industry.

The Construction Project Management programme includes accredited online content to prepare students to sit the PRojects IN Controlled Environments (PRINCE2) Foundation exam or the Association for Project Management Project Fundamentals Qualification (APM PFQ).

Modules

Compulsory modules studied may include: ICT for Construction Projects; Research and Communication; 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 Building Information Modelling (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, independent study, group work, practical sessions, supervision and workshops.

Career prospects
Our graduates have gone on to work for a variety of organisations nationally and internationally, including Arup, Atkins, BAM Nuttall Ltd, Balfour Beatty, Kier Group, Morgan Sindall, Skanska and Transport for London.
Construction Project Management with Building Information Modelling

MSc
Full-time length: 1 year
Part-time length: not available

Entry requirements: A 2:1 honours degree or equivalent

Programme overview
Competency in project management remains a key part of the skills-set of every construction professional. Our Construction Project Management with Building Information Modelling MSc programme is designed to further enhance and develop your project management expertise by complementing it with contemporary demands to integrate expertise and skills in building information modelling (BIM).

The programme includes access to accredited online content to give you the opportunity to take the ‘Projects IN Controlled Environments’ (PRINCE2) Foundation exam or the ‘Association for Project Management Project Fundamentals Qualification’ (APM PFQ), which are both provided by a third-party provider. We are also a corporate affiliate member of the Association of Corporate Affiliates to the Association of Project Management and APM for the purpose of the PRINCE2 Foundation Exam.

Modules
- Compulsory modules studied may include: Research Methods; Principles of Project Management; Principles and Application of BIM; Digital Buildings in a Global Design Context; Design Management; Federated Building Information Modelling; Building Performance Evaluation; Monitoring and, of a research dissertation.
- Optional modules may include: Management of Construction Processes; Techniques; Building Information Modelling; Construction Management; People, and AGG-4055-2; Construction Law and Contract Management; and Daylighting Design and Simulation.

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

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

Career prospects
As this is a new programme, graduate destinations are not yet available. However, this degree is suitable for those interested in developing contemporary project management skills complemented with the growing demands placed on professionals in the sector to engage with and integrate expertise and knowledge of building information management within their professional practice.

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.

Programme overview
Road, railway, waste collection, hydraulic and power systems are just a few examples of infrastructure vital to the social well-being and the economy of countries. Governments around the world have established the delivery and the maintenance of infrastructure as a priority, allocating a massive amount of resources for their development and maintenance. This is a booming sector with exciting opportunities and a significant deficit of professionals qualified.

This MSc promotes the education of professionals for the design and project management of civil infrastructure under an innovative vision. The programme has compulsory and optional modules, and you will be able to choose between an infrastructure design or project management pathway. In each of them, you will be exposed to specific technical subjects with a strong focus on the integration of new technologies. You will work in groups with students from both pathways to develop real infrastructure projects defined in collaboration with the industry or public bodies. This will build the teamwork and leadership skills needed to overcome the challenges of infrastructure design, delivery and maintenance.

Modules
- Modules studied may include: Introduction to Infrastructure Systems; Research Methods; Advanced Design; Principles of Project Management; Advanced Methods for Infrastructure Inspection and Maintenance; Real-Case Project Development; Sustainability in the Built Environment; Design Management; Federated BIM; Disaster Risk Management; and a research dissertation.

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

Career prospects
As this is a new programme, graduate destinations are not yet available. However, this degree is suitable for those interested in developing contemporary project management skills complemented with the growing demands placed on professionals in the sector to engage with and integrate expertise and knowledge of building information management within their professional practice.

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.

Programme overview
Our Low Energy Building Services Engineering MSc provides students with a holistic understanding of the principles of low energy building and building services design. This enables graduates to contribute to the global transition to a future low energy built environment.

Students learn through a carefully balanced combination of lectures, in-class guided workshops, hands-on laboratory experiments, site visits, computer modelling, and independent research, with the content being delivered by experts in the field. Part-time students may base their research projects on the particular needs of their employer. The programme is accredited by both the UK Chartered Institution of Building Services Engineers (CIBSE) and the Energy Institute (EI), for professional registration as a UK Chartered Engineer (CEng). The course has extensive support from industry and they provide prizes and placements for our students.

Modules
- Modules studied may include: Human Thermal Comfort and Indoor Environment; Building Thermal Loads and Systems; Building Energy Supply Systems and District Energy Networks; Control and Commissioning for Low Energy Buildings; Electrical Systems: Buildings and Renewable Energy; Low Energy Building Design; Thermal Modelling and 3D Building Information Modelling; Research Methods in Building Performance; and a research dissertation in building performance.

How you will be assessed
You will be assessed by a combination of written examinations, coursework, presentations and assignments.

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

Career prospects
Our graduates have gone on to work for leading consulting engineering companies such as Arup, Pick Everard, Hoare Lea, Cundall, Foster & Partners, and Atkins. 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.

Programme overview
This programme is uniquely dedicated to developing construction managers’ knowledge and expertise in sustainable practices. Managing construction has become increasingly intertwined with sustainability, with the fundamental need to have expertise in environmental engineering, building physics, sustainable design, and the commissioning and testing of sustainable buildings. The programme integrates contemporary construction management theory and practice with that of fundamental and interrelated sustainable construction. You will benefit from hands-on experience and knowledge for application within the public or private sector. You will also have the opportunity to gain the Building Research Energy Environmental Assessment Methodology (BREEAM) qualification.

Modules
- Compulsory modules studied 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; Control and Commissioning for Low Energy Buildings; Low Energy Building Design; Integrated Sustainable Design and Construction Project; and a research dissertation.

Optional modules may include: Design Management; Management of Construction Processes and Techniques; 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, independent study and practical sessions.

Career prospects
As this is a new programme, graduate destinations are not yet available. However, graduates from our School have gone on to work for a variety of organisations nationally and internationally, including Arup, Atkins, B&M Nuttal Ltd, Balfour Beatty, Kier Group, Morgan Sindall, Skanska and Transport for London.
Water Engineering for Development

MSc/Diploma/Certificate

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

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

Fees:
UK/EU: £10,950
International: £23,500

Programme overview
Our Water Engineering for Development programme is designed to establish and develop your career in water engineering, as well as sanitation engineering for low- and middle-income countries. You will obtain skills in the relevant engineering principles, as well as the practical aspects of undertaking water engineering in a development context. 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 water sector. You will benefit from being taught by experts in a broad range of disciplines with considerable academic and practical experience. This programme is accredited by the CIWEM and the Joint Board of Moderators of the Institute of Civil Engineers (JBM).

Modules
Compulsory modules studied may include: Management of Water and Environmental Sanitation Infrastructure; Integrated Water Resources Management; Urban and Rural Sanitation Engineering; Groundwater Resource Modelling and Management; Urban Flood Modelling and Management; Urban and Rural Water Supply Engineering; Research Methods; and Research Dissertation.

Optional modules may include: Advanced Wastewater Treatment; Disaster Risk Management; or Humanitarian Water, Sanitation and Hygiene Promotion

How you will be assessed
You will be assessed by a combination of coursework 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
Our programme establishes a career path in the water and sanitation sectors. Graduates often work in Africa and Asia delivering water engineering solutions and establishing environmental sanitation infrastructure. They join the global community of over 1000 WEDC alumni from over 70 countries who work for UNICEF, the World Bank and a variety of national governments and international agencies.

Water Management for Development

MSc/Diploma/Certificate

Full-time length: 1 year
Part-time length: see distance learning listing opposite

Entry requirements:
A 2:2 honours degree or equivalent international qualification in any discipline.

Fees:
UK/EU: £10,950
International: £23,500

Programme overview
Our Water Management for Development programme is designed to develop careers managing water and environmental sanitation services for low- and middle-income countries. As such, you will be provided with the multidisciplinary knowledge and skills to coordinate, 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 both international development and emergency sectors. You will therefore benefit from being taught by experts in a broad range of disciplines who have considerable experience of working in these areas.

Modules
Compulsory modules studied may include: Management of Water and Environmental Sanitation Services; Water and the Natural Environment; Management of Village Water Services; Assessment, Monitoring and Evaluation for Research and Management Practice; Household and Communal Sanitation Management; Management and Operation of Water Utilities; 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 combination of coursework, exams 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
Previous students have gone on to work for international NGOs, such as MSF, Oxfam, SCF, GOAL and WaterAid, at agencies such as UNICEF or within national governments.

Graduate job titles include Sanitation Technical Manager, Water and Sanitation Consultant, Project Manager, Environmental Engineering Consultant and Civil Engineering Specialist.
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.

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 2000 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.

Our programmes

Research opportunities
Full-Time MBA
Executive MBA (EMBA) including Sports Management pathway
Banking and Finance MSc
Business Analytics MSc
Business Psychology MSc
Corporate Finance MSc
Economics and Business Strategy MSc
Economics and Finance MSc
Economics and International Business MSc
Employment Relations and Human Resource Management MSc
Finance MSc

Finance and Investment MSc
Finance and Management MSc
Human Resource Management MSc
Information Management and Business Technology MSc
International Business MSc
International Management MSc
(Logon campus)
Logistics and Supply Chain Management MSc
Management MSc
Marketing MSc
Work Psychology MSc
Social Science Research MSc (Business and Management Studies)

“Studying at Loughborough has improved my critical thinking skills and given me the confidence to research and find solutions that may go against conventional wisdom.”

Justin
MSc Economics and Finance
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 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/EU: see website International: £17,200

Our areas of research

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

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 multi-disciplinary 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 of service management; and pursues 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.

Discipline Groups

Research staff and students are all placed within one of the School’s seven Discipline 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 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 discipline group undertakes rigorous and relevant applied research in microeconomics, macroeconomics and econometrics, with a view to apply 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.

Human Resource Management and Organisational Behaviour

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 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 Management
- Logistics and Transportation Analytics
- Management Accounting
- Money and Developing Economies
- Simulation Practice
- Town Centres
- Trade Agreements, Negotiation Strategy, Investment and Technology (TRANSIT)
Taught programmes

Full-Time MBA

MBA

Full-time length: 1 year or 2 years with internship
Part-time length: see Executive MBA listing
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: MBA, Level 7 Apprenticeship route available. Please see lboro.ac.uk/pg2020/sbe

Programme overview

Our Full-Time MBA will equip you to become an elite performer in business, accelerate your career and enable you to maximise business performance in a global environment.

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. Our internship route (2 years) offers the opportunity to develop business experience.

Modules

Compulsory modules may include: Business Economics; Accounting and Performance Management; Management of Human Resources; Business Analytics; Operations Management; Strategy; Organisational Behaviour; Marketing Management; Corporate Finance; Strategic Marketing; Decision Making for Leaders; Leading the Organisation: Leading People; Leading the Organisation: Strategy, Governance and Markets; Leading the Organisation: Leading People; and Strategy Analytics; Process and Programming for Analytics.

Optional modules may include: Information Systems, Strategy and Management; Project and Research Methods; Corporate Finance; Advanced Management (ESSAM); International Intensive Operations Management; European Summer School in Managing Corporate Reputation; Project Management; Economics; Accounting and Performance Management; Strategic Management; Human Resource Management; Business Analytics; Entrepreneurship and Innovation; and Professional Development Sessions.

Executive MBA (EMBA)

MBA

Full-time length: see Full-Time MBA listing
Part-time length: up to 4 years (typically 3 years)
Entry requirements: Minimum of five years’ management/professional experience plus a 2.1 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: MBA. Level 7 Apprenticeship route available. Please see lboro.ac.uk/pg2020/sbe

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, diverse range of sectors and share some modules with our internationally diverse Full-Time MBA. 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 the Organisation: Leading People; Leading the Organisation: Strategy, Governance and Markets; Leading Strategic Change; and Work-Based Learning Project and Research Methods, or Sports Management Work-Based Learning Project.

Optional modules may include: Global Outsourcing and Offshoring of Services; Corporate Finance; Managing Corporate Reputation; Managing the Global Firm; Information Systems, Strategy and Management; 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), and Global Outsourcing and Offshoring of Services.

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 group and individual coursework.

How you will study

You will study through seminars, tutorials, independent study, group work, field trips and workshops.

Career prospects

This internationally recognised MBA is ideal for professionals with 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/EU: £13,800 International: £23,200

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 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/EU: £13,800 International: £23,200

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 business, government 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; Logistics Modelling and Operations Analysis; 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/EU: £13,800 International: £23,200

**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 improvement.

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; Organisational 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 a range of seminars, lectures, tutorials, independent study, group work and supervision.

**Career prospects**

Typical graduate roles for this programme include HR consultant and business psychologist, talent acquisition specialist, regional sales manager, executive assistant, HR coordinator and associate consultant.

**Economics and Business Strategy**

**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 disciplines. 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/EU: £13,800 International: £21,900

**Programme overview**

Our Economics and Business Strategy MSc will provide you with the capability to apply modern macroeconomic, microeconomic and econometric methods in order to assess and shape organisational, government, financial and economic 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 global 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; Corporate Finance; International Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods of Financial Data Analysis; Corporate Finance; Financial and Investment; 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. You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

**Career prospects**

Our Economics and Business Strategy MSc is ideal for graduates interested in careers in banking, consulting, government and international organisations or as an academic economist.

**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/EU: £13,800 International: £21,900

**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, financial and economic 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 global 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; Corporate Finance; International Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods of Financial Data Analysis; Corporate Finance; Financial and Investment; 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. You will study through a range of seminars, lectures, tutorials, independent study, group work and workshops.

**Career prospects**

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

**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 a related subject. Applicants from other disciplines may also be considered. Please see website for more details.

**Fees:** UK/EU: £13,800  International: £21,900

**Programme overview**  
Our Economics and International Business MSc will equip you with the key skills required for a successful career in businesses and organisations operating in the global economy. You will develop the practical skills and techniques to assess and implement business strategies in response to the problems affecting firms and markets in a highly competitive international business environment.

You will be taught by experienced economists, international business researchers, and practitioners who have researched expertise in key areas of international trade and business, such as multinational investment decisions, international mergers, international technical collaborations, environmental policies and agreements.

**Modules**  
Compulsory modules may include: Economics of Firms and Markets; Industrial Organisation and Strategy; International Business Environment; Research Communication for Economists; Economics of International Business; Economics and International Business in Practice; Global Strategic Management; and an economics research project.

Optional modules may include: Introduction to Data Analysis; Global Outsourcing and Offshoring of Services; Marketing in the Organisation; Applied Data Analysis for Business Strategy; Economics of Corporate Strategy; Global Logistics and Supply Chain Management; and International Marketing.

**How you will be assessed**  
Modules are assessed through a combination of group and individual coursework, as well as exams.

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

**Career prospects**  
Our Economics and International Business MSc is ideal for graduates interested in careers in international business, management and strategy consulting, and industry.

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/EU: £13,800  International: £23,200

**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.

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/EU: £13,800  International: £23,200

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

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; 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 and Investment MSc 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 banks and asset management firms.
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/EU: £13,800 International: £23,200

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 in both 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 resource management, accounting, strategic management and, in particular, finance. Your financial knowledge and skills will be further developed within accounting and finance modules. There is also the option of a study abroad semester at one of our international partner universities.

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; Corporate and Wholesale Finance; and International Financial Management.

Optional modules may include: Business Economics; Business Environment; Human Resource Management; Personal Development for Study and Employability; Financial Theory and Corporate Policy; Corporate and Wholesale Finance; and International Financial Management.

In the summer semester you may study abroad or 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.

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/EU: £13,800 International: £21,900

Programme overview
Our Human Resource Management MSc is approved by the Chartered Institute for Personnel and Development (CIPD), the professional body for Human Resources, Employment Relations and related professions in the UK. It 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 from the CIPD.

The programme is taught by academics with both a strong track record in human resource management related research and practitioner HR experience. It focuses on developing critical thinking and analytical skills alongside more practical skills required for a career in people management.

Modules
Compulsory modules may include: Human Resource Management: Theory and Practice; Developing Skills for Business Leadership; Strategic Human Resource Management; Research Methods for Human Resource Management; and a human resource management dissertation.

Optional modules may include: Employment Relations; Leadership and Performance Management; Work Design, Organisational Change and Development; Employment Law; Career Development; Learning, and Development and Knowledge Management.

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

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

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/EU: £9,300 International: £19,100

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 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
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 assessed by group and individual coursework.

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

Career prospects
Our recent graduate destinations include Advanced Computer Software Group plc (IT Manager), Alliance Boots (Trainee Manager), Amtec Developments [Project Manager], FESCO (Security Engineer), IBM Client Innovation Centre [Project Finance Analyst] and Loughborough University [Doctoral Researcher].

International Business
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. Please see website for more details.
Fees: UK/EU: £13,800 International: £23,200

Programme overview
Our International Business MSc is designed to equip you to work effectively across different national contexts in a range of business and management roles.

You will develop an understanding of cross-cultural differences, intercultural communication and leadership, internationally distributed collaborations, international human resource management, and international strategic decision-making. You will develop practical knowledge of the global business environment, international business negotiations, project sourcing models, international supply chains, global social entrepreneurship and international innovations.

You have the option to study abroad for a semester or take part in a competitive 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/EU: £13,800 International: £23,200

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 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 data and apply these 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 develop hands-on experience of using industry-standard software packages such as SAP and SAS.

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

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 (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/EU: £13,800 International: £23,200

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; 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 Marketing; 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 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 (ICM) 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/EU: £9,300  International: £19,100

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.

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, 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 thinktanks.
The Department of Chemical Engineering is committed to developing the chemical engineers of the future by providing essential knowledge and training in the sciences, technology, management and communication disciplines. With a vibrant and exciting community of academic staff, postdoctoral research fellows and influential visitors from all over the world, postgraduate students in chemical engineering have the opportunity to be involved in the latest developments and research within the process industries.

We are situated in a purpose-built facility including a 395m² multi-storey mezzanine pilot plant, excellent quality laboratories and services for both bench and pilot-scale work. The facility is complemented by first-rate computational and IT resources and has a number of mechanical and electronic workshops. Students also benefit from a £17 million state-of-the-art STEMLab, which contains engineering, sciences, materials, bioscience and bioengineering laboratories.

Our research is focused on three multidisciplinary areas: pharmaceutical and biological engineering, energy and environmental engineering, micro/nano material engineering and catalysis and separation technologies. 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, novel drug delivery methods, advanced water treatment and the continuous manufacturing of pharmaceutical products.

Through this research we enjoy a number of close collaborations with companies such as AstraZeneca, BP, British Sugar, Carlsburg, E.ON, Exxon, GlaxoSmithKline, PepsiCo and Unilever.

Accreditation by the Institute of Chemical Engineers (IChemE) facilitates progression towards Chartered Engineer (CEng) status after a period of relevant graduate-level employment.

"I chose Loughborough for several reasons – it’s top 10 in the UK for chemical engineering and excellent in research. I was particularly impressed by the diversity, facilities and support for students."

Louisa
PhD student

Our programmes

Research opportunities

Advanced Chemical Engineering MSc

Advanced Chemical Engineering with Information Technology and Management MSc

lboro.ac.uk/pg2020/chemeng
Our research covers both fundamental phenomenon and the design and simulation of conventional and new processes, including adsorption, ion exchange and membrane separation. Applications can range from biotechnology and green processes to energy, resource recovery and recycling. Projects cover a wide range of topics including nanofiltration of solvents, applications in fuel purification, ultrafiltration of proteins, and nano-structured adsorbents for blood purification.

Catalytic, Separation and Purification Technology

Our vision is to exploit pharmaceutical engineering technologies and provide bio-engineering solutions to tackle global healthcare challenges, such as antimicrobial resistance, and enable cost effective production of high value drugs (ranging from traditional tablets to cell, gene and tissue based therapies). Examples include: manufacturing and scale up challenges for cell-based therapies, gene therapies and bacteriophage; development of bioprocessing toolkits, which include genetic engineering; development of scale down models of tissue culture models; engineering human tissue for diagnostic, drug toxicity testing and clinical purposes; generation of functional particles and particle-based architectures by microfluidic platforms; encapsulation of cells and bioactive compounds, including novel antimicrobials; handling of complex powder formulations; freeze drying of pharmaceutical excipients; population balance and CFD modelling of pharmaceutical crystallizers, bioreactors, and downstream process units; crystallisation systems engineering; pharmaceutical process control.

Energy and Environmental Engineering

Our departments encourage cross-disciplinary projects to address real-world challenges for cell-based therapies, gene therapies and bacteriophage; development of bioprocessing toolkits, which include genetic engineering; development of scale down models of tissue culture models; engineering human tissue for diagnostic, drug toxicity testing and clinical purposes; generation of functional particles and particle-based architectures by microfluidic platforms; encapsulation of cells and bioactive compounds, including novel antimicrobials; handling of complex powder formulations; freeze drying of pharmaceutical excipients; population balance and CFD modelling of pharmaceutical crystallizers, bioreactors, and downstream process units; crystallisation systems engineering; pharmaceutical process control.

As a research student in the Department of Chemical Engineering, you will have the opportunity to not only become an independent researcher but create a lasting network of peers. Attendance at relevant conferences is encouraged, with bursaries for travel made available on a competitive basis. You will be assigned a supervisory team who, together with the director of doctoral programmes, provide 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.

Nanotechnology

The focus is on the discovery and understanding of nanoscale materials and their properties. The materials are fabricated by a variety of methods, including mechanical milling, solution synthesis, and co-precipitation. The properties of these materials are studied as a function of their size and morphology. This programme is 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. The programme uses credit accumulation and offers advanced modules covering a broad range of modern process engineering, technical and management topics.

Modules

Students will develop knowledge on core and advanced Chemical Engineering subjects which may include: Advanced Engineering Separations; Modelling of Chemical Engineering Systems. Optional study areas will help you tailor the MSc programme and may include: Clean Energy and Sustainability; Advanced Biochemical Engineering; Intensification; Interface and Colloid Science and Advanced Process Optimisation.

Advanced Chemical Engineering with Information Technology and Management

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. You will increase your knowledge of entrepreneurship, planning a new business, marketing, risk, and financial management. Use of advanced modelling and simulation tools applied to broad engineering areas is central to this programme. The programme uses credit accumulation and offers advanced modules covering a broad range of modern process engineering, technical and management topics.

Programme overview

How you will be assessed

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

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 Exxon Mobil, BP, GlaxoSmithKline, Tata Steel Europe, and Petronas.
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
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.

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.”

Sarah
PhD student

Our programmes
Research opportunities p70
Analytical and Pharmaceutical Science MSc/PGDip/PGCert p71
Analytical Chemistry MSc/PGDip/PGCert p71
Pharmaceutical Science and Medicinal Chemistry MSc/PGDip/PGCert

lboro.ac.uk/pg2020/chemistry
Research opportunities

**PhD:** 3 years full-time; 6 years part-time  
**MPhil:** 2 years full-time; 4 years part-time  

**Entry requirements:** A 2.1 honours degree or equivalent international qualification in chemistry or a closely related discipline.  
**Fees:** UK/EU: see website  
International: £22,350

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 IT, and we also 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 and Pharmaceutical Science**  
**MSc/Diploma/PG Certificate**  
**Entry requirements:** A 2.2 honours degree or equivalent international qualification in chemistry, biochemistry or a closely related subject.  
**Fees:** UK/EU: £10,950  
International: £23,500  

**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.

**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.

**Career prospects**  
Recent graduate destinations include Alliance Boots (Process Technologist), GlaxoSmithKline (Analytical Scientist), Nemaura Pharma Ltd (Development Scientist), and Quotient Clinical (Manufacturing Scientist).

**Analytical Chemistry**  
**MSc/Diploma/PG Certificate**  
**Entry requirements:** A 2.2 honours degree or equivalent international qualification in chemistry, biochemistry or a closely related subject.  
**Fees:** UK/EU: £10,950  
International: £23,500

**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 all the major analytical techniques, complemented by studies in transferable and professional skills, and with the option to study aspects of medicinal and pharmaceutical chemistry if desired.

**Modules**  
Compulsory modules studied may include: Research Methods; Separation Techniques; Mass Spectrometry and Associated Techniques; Spectroscopy and Structural Analysis; Professional Skills and Dissertation; and a research project.

Optional modules studied may include: Spectroscopy and Drug Metabolism; Drug Targets, Drug Design and Drug Synthesis; Sensors; and Innovations in Analytical Science.

**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.
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/EU: £10,950  International: £23,500

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 studied 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 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.

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.

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 programmes

- Research opportunities p76
- Digital Media and Society MA p77
- Global Media and Cultural Industries MA p77
- Media and Cultural Analysis MA p78
- Media History MA p78
- Social Media and Political Communication MA p79
- Social Science Research (Communication and Media) MSc p79
- Strategic Communication MA p80

lboro.ac.uk/pg2020/communication
Research opportunities

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 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.

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 their 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.

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 the social sciences or humanities.
Fees: UK/EU: £9,300 International: £19,100

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 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.

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; Data Power and Democracy; Political Psychology; 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 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/EU: £9,300 International: £19,100

Programme overview
Global media and cultural industries are important sources of employment and economic growth internationally. Our MA programme focuses on the growth of these global industries and the roles that states play in governing them. It also explores the ways in which media institutions, media practitioners and regulatory bodies operate and interact in continually changing technological, social and cultural contexts. The programme draws on the considerable expertise in transnational and comparative research, as well as expertise in the political economy of communication from our Centre for Research in Communication and Culture.

During the Easter vacation there is the opportunity to undertake a four-week placement which can be recognised as part of your dissertation research project.

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; Data Power and 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 ADVENTI Communication, Bloomberg Businessweek China, Fujian Broadcasting & TV Network 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.
Media and Cultural Analysis

MA

Full-time length: 1 year
Part-time length: Data not available

Entry requirements: A 2:1 honours degree or equivalent international qualification in the social sciences or humanities. Applicants with appropriate professional expertise will also be considered.

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 and 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 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, group work and workshops.

Career prospects
Recent graduates have gone on to work for Viacom, China Daily, Jiangsu 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.

Media History

MA

Full-time length: 1 year
Part-time length: Data not available

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

Programme overview
The Media History MA 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. A key focus is on the various challenges and changes that have shaped the development of media including the press, cinema, photography, broadcasting and digital platforms. The degree also provides an introduction to the evolution of various cases and controversies relating to the economic, political and cultural impact and significance of these phenomena.

The degree introduces debates relating to the scope, trajectory and trajectory of cultural media history through analysis of classic texts and consideration of more contemporary perspectives. Different modules interrogate the social, cultural and political ramifications of developments in media history from the mid-nineteenth century to the present.

Modules
Compulsory modules studied may include: Key Debates in Media History; Dissertation in Media History; The Media in Modern and Contemporary History, Understanding Modern Media; Researching Communications 1: Media Users and Cultural Institutions; Cultural Memory and the Heritage Industries; Researching Communications 2: texts and digital platforms.

Optional modules may include: Media and Cultural Industries; political economy and public policy; Digital Economies; Marketing Politics; Politics of Representation; Global Communications; Media and Cultural Work: inequality and discrimination in the creative industries; Digital Cultures.

How you will be assessed
You will be assessed through a combination of coursework, group work, presentations and a dissertation.

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

Career prospects
As this programme is new, graduate destination data is not yet available. However, key transferrable skills gained from this programme will be ideal for students wishing to work in the media and related fields.

Social Media and Political 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.

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 political 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 on availability and timetabling constraints).

How you will be assessed
You will be assessed by a combination of coursework and a dissertation.

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

Career prospects
This course is ideal if you want to build a career in advocacy, campaign management, digital engagement, political communication consultancy, journalism, government communication, policy analysis, digital advertising, marketing and public relations, or political research, to name but a few.

Social Science Research (Communication and Media)

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.

Programme overview
Our Social Science Research (Communication and Media) MSc is designed for students interested in pursuing a research career in communication and media in both academia and industry and is accredited by the Economic and Social Research Council (ESRC).

The programme provides an opportunity to develop specialised research methods skills in communication and media in an internationally renowned department, as well as a comprehensive overview of the key methodological and philosophical debates that currently shape social sciences.

Modules
Compulsory modules studied may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods: Production and Reception; and a dissertation.

Optional modules may include: Doing Research with Young People in their Social-Spatial Contexts; Advanced Content Analysis; Methodological Advances in Applied Ethnography; and Applied Conversation Analysis.

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
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 analysis, 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/EU: £9,300 International: £19,100

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.
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.

Our research is focused on the three main themes of vision, autonomous, and human computer systems, internet systems and network security, and theoretical computer sciences.

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, under the Academic Training Partnership.

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 and Rolls-Royce 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, and PwC, 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.

Our programmes

Research opportunities p84
Advanced Computer Science MSc p85

lboro.ac.uk/pg2020/compsci
Research opportunities

PhD: 3 years full-time; 6 years part-time
Integrated PhD: 4 years full-time
MPhil: 2 years full-time; 4 years part-time

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

Fees: UK/EU: see website International: £22,350

Our postgraduate students join a talented research community that continues to make a valuable contribution to the rapidly developing computer science sector, particularly in areas such as wireless communications, multimedia, logistics, healthcare, the emergency services, transport, surveillance and the environment.

Supporting you

You will receive academic and pastoral support from two supervisors and the Director of Doctoral Programmes. The Department also offers a regular, varied programme of seminars with both internal and external speakers, organised social activities and opportunities for research skills training and networking. You will also have access to a workstation, online access to many international journals, access to funds for conference attendance and consumables, and access to library and IT services.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus. Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus. For self-funded projects or those funded by third-party sponsors, you should include a research proposal of approximately two pages with your application. This proposal should outline the research context, the main aim and objectives of the proposed research, and some indication of the methodology to be used.

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, Newton 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, 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 internet control, 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: 2 years

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

Fees: UK/EU: £10,950 International: £23,500

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, and theoretical computer science.

Modules

Modules studied 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 Allos (software development), Sophos plc (network and security engineering) and ESOS Ltd (web development).
Creative Arts

Loughborough University Creative Arts has an impressive reputation for teaching and research excellence in the fields of visual and performing art.

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

Our research takes place both through individual scholarship and in collaboration with research partners across the UK and across the world, and 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 uses its research strengths to form links with the creative industries, developing the entrepreneurial side of our activities, and fostering 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 audio-visual 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 making 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.

Students 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 spaces for seminars and small group activities.

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.”

Shruti
MA Graphic Design and Visualisation
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

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

 Fees: UK/EU: see website International: £17,200

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

We welcome applications in any of the areas listed on this page, and encourage prospective students to explore the research activity of our staff and to contact appropriate staff directly for advice before submitting an application. Our PhD programme allows for either a text-based research project, or for a practice-based project. The practice-based PhD requests an appropriate presentation of visual 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, including the Art History and Visual Culture group in the School of Social Sciences and Humanities.

Extended proposals and an interview are necessary before the applicants are finally accepted or otherwise. Applicants will normally be asked to supply a written proposal of 2,000 words on their proposed 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; and dedicated to excellence at a national and international level in all its activities.

Arts and Heritage
The Arts and Heritage group brings theoreticians and practitioners together in developing innovative approaches to research and investigate art and architecture, for example employing 3D scanning and CAD.

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. Art History and Visual Culture colleagues welcome enquiries about PhD supervision across the following areas: European art and design from the eighteenth 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.

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 public sphere has been used in different disciplines.

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.

Feminism, Sexual Politics and Visual Culture
The CDT: Feminism, Sexual Politics, and Visual Culture was established in 2018. The main catalyst for it is the deepening and rapidly changing global complexity of the relationship between feminist praxis and culture, particularly in politics, arts, and academia. The recent tsunamis of feminist activism, from sport to science, government to entertainment, are the most public evidence of this new complexity. The CDT explores this moment.

Genders and Identities
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.

Politicised Practice
The Politicised 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?

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 20 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 focusses on how storytelling is a democritising practice that can help bring new voices and knowledge into the public conversations around major global challenges in the areas of environment, health, education and social justice.

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.

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/EU: £9,300 International: £19,100

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; Final Project: Situating and Rehearsing; Research Methodologies; Art and Design; 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.

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.
We are proud to be helping the next generation of designers and ergonomists develop truly life-changing products and services of the future.

We have particularly close links with a range of world-class businesses and organisations, including:

- Adidas AG
- Bridgestone Corporation
- British Council
- Department for Transport
- EDF Energy UK
- European Council
- Innovate UK
- Jaguar Land Rover
- Materialise NV
- Nissan UK
- Tong Saing Ltd

Our expertise and teaching is built on the design principles of aesthetics, technology and understanding the user. We offer four 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.

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.

Our programmes

Research opportunities p92
Ergonomics and Human Factors MSc/PGDip/PGCert p93
Human Factors and Ergonomics for Patient Safety PGCert p93
Integrated Industrial Design MSc p94
User Experience Design MA p94

“...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.”

Dora
MSc Ergonomics (Human Factors)
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements: A 2.1 honours degree or equivalent international qualification.

Fees: UK/EU: see website International: £22,350

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
Loughborough Design 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, focussing 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/pg2020/ctd

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 a relevant discipline or closely related subject.

Fees: UK/EU: £10,950 International: £23,500

Programme overview
Our Ergonomics and Human Factors programme examine how best to ensure a good fit between people, their actions, the objects they use and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

The programmes are professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

Modules
Compulsory modules: Cognitive Ergonomics; Physical Ergonomics; Occupational Ergonomics; Human Factors and Systems; Data Collection and Analysis; Project Module (Dissertation).

As well as Ergonomics and Human Factors you can select a specialist stream: Human Factors for Inclusive Design, Human Factors in Transport, Human Factors and Ergonomics for Patient Safety, Ergonomics in Health and Community Care. This involves including three of the following optional modules appropriate to the specialism: Environmental Ergonomics; Interaction and User Experience Design; Inclusive Design of products and services; Transport Safety; Healthcare Ergonomics; and Patient Handling Ergonomics.

The PG Certificate programme includes the specialist module from the optional 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 will you study
Each module is block taught over a one-week intensive period at Loughborough. 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 or a human factors practitioner.

Example jobs held by our recent graduates include: Chief Ergonomist, Human Factors Engineer, Consultant, Usability Engineer, Product Manager, Safety Engineer, Graduate Human Factors Engineer, Human Factors Consultant and Usability Engineer.

Human Factors and Ergonomics
for Patient Safety

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

Entry requirements: An honours degree (2.1 or above) or equivalent international qualification in a relevant discipline or closely related subject.

Fees: UK/EU: £10,950 International: £23,500

Programme overview
Our PG Certificate Human Factors and Ergonomics for Patient Safety provides an insight into human factors, focusing on the promotion of patient safety in the healthcare sector. It also concentrates on investigations relevant to understanding and intervening in these situations, with the view to improving conditions for those exposed.

The programme examines how best to ensure a good fit between people, their actions, the objects they use and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

This certificate is professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

Modules
Modules studied may include: Cognitive Ergonomics; Physical Ergonomics; Occupational Ergonomics; Human Factors and Systems; Healthcare Ergonomics and Patient Safety.

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 will you study
Each module is block taught over a one-week intensive period at Loughborough. Outside of this time you will be expected to complete prepared programme materials and assignments. You will be expected to participate in tutorial-type discussions.

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

Example jobs held by our recent graduates include: Chief Ergonomist, Human Factors Engineer, Consultant, Usability Engineer, Product Manager, Safety Engineer, Graduate Human Factors Engineer, Human Factors Consultant and Usability Engineer.
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/EU: £10,950 International: £23,500

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, collaborative design, 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 the exciting opportunity to enter an international design competition and to participate in industry supported projects.

Modules

Modules studied may include: Industrial Design and Technology Skills; Digital Fabrication Skills; 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 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

Possible careers include industrial designer, product designer, design-maker and prototyping.

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 consider students from a range of disciplines relevant to user experience design, including psychology, computer science 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/EU: £9,300 International: £19,100

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.

Specialist eye tracking equipment and software is available to support usability evaluations. Audio visual equipment is available to support design research activities including state-of-the-art wearable cameras. You will also benefit from our Mac lab with a wide range of design and UX software.

Modules

Modules studied 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 user experience 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.
English at Loughborough sits within the world-leading School of Social Science and Humanities. We have an impressive reputation for teaching and research excellence in the fields of textual editing and interpretation, creative writing, book history and publishing. Our approach is to explore culture and communication in context, developing in our students a critical approach to both literary histories and contemporary literatures and theories. We have a strong central focus on English literature and language, yet enable students to explore more interdisciplinary, comparative aspects of the field.

Students have full access to a range of outstanding learning and teaching facilities, including dedicated social and informal study areas, state-of-the-art audio-visual equipment, and a variety of offices and teaching rooms for seminars and small group activities.

Innovative teaching and research
The School provides a number of exciting ways to enhance students’ skills and develop their employability by incorporating the latest research developments into the curriculum, and providing teaching from leading experts in their specialist subject areas.

PhD students are supported by expert staff with a diverse range of research interests and experience in publishing, literature, textual scholarship and creative writing.

Our programmes
Research opportunities p98
Storytelling MA p99
Theatre MA p99

lboro.ac.uk/pg2020/english
Research opportunities

Our areas of research
The following list constitutes our main research groups.

**Arts and Heritage**
The Arts and Heritage group brings theoreticians and practitioners together in developing innovative approaches to research and investigate art and architecture, for example employing 3D scanning and CAD.

**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.

**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. Art History and Visual Culture colleagues welcome enquiries about PhD supervision across the following areas: European art and design from the eighteenth 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.

**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.

**Editing Aphra Behn in the Digital Age**
Through systematically integrating digital and established methods, E-ABIDA will produce and disseminate a new, comprehensive edition of Aphra Behn (1640-89), one of the most important English Restoration writers.

**Feminism, Sexual Politics and Visual Culture**
The CDT: Feminism, Sexual Politics, and Visual Culture was established in 2018. The main catalyst for it is the deepening and rapidly changing global complexity of the relationship between feminist praxis and culture, particularly in politics, arts, and academia. The recent tsunami of feminist activism, from sport to science, government to entertainment, are the most public evidence of this new complexity. The CDT explores this moment.

**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.

**Museums, Markets and Critical Heritage**
This multi-disciplinary research group explores cutting-edge practices in, and debates about, collecting, marketing, and exhibiting works of art and cultural property.

**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?

**Publishing**
Our projects focus on the workings of the publishing industry past and present, as well as book design and textual editing.

**Taught programmes**

**Storytelling**

**MA**
**Full-time length:** 1 year
**Part-time length:** up to 3 years

**Entry requirements:** Please see website for details.
**Fees:** Please see website for details.

This programme takes storytelling as a creative practice, with the storytelling practitioner at its core. The focus is on Applied Storytelling, which is the use and application of storytelling within contexts of community-building, personal and professional development, and policy formation. It builds on our international reputation for research in Applied Storytelling relating to areas of Health, Environment, Education and Social Justice and offers students the opportunity to develop as storytelling practitioners and work alongside researchers on existing projects in the UK and overseas.

For more details please see lboro.ac.uk/pg2020/english

**Theatre**

**MA**
**Full-time length:** 1 year
**Part-time length:** up to 3 years

**Entry requirements:** Please see website for details.
**Fees:** Please see website for details.

This programme offers students the opportunity to develop valuable professional practice experience. Students will gain work experience or undertake placements within the creative industries, or work on existing research projects in the school. The programme is actively interdisciplinary, encouraging creative collaboration between postgraduate students across the school. This enables students to actively participate in creative practice together, bringing different strengths together to produce dynamic and innovative performance and theatre.

For more details please see lboro.ac.uk/pg2020/english
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.

Geography and Environment

Our programmes
Research opportunities p101
Childhood, Youth and Social Policy MA p102
Environmental Monitoring, Research and Management MSc p103
International Financial and Political Relations MSc p104

lboro.ac.uk/pg2020/geography
Research opportunities

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 hydrological and ecosystem science, polar and alpine research, 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)
The Department of Geography 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 Science, 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

MSc

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

Entry requirements:
An honours degree (good 2:2 of 55% or above) or equivalent international qualification in geography or other social sciences/humanities discipline.

Fees:
UK/EU: £9,300   International: £19,100

Programme overview
Our Childhood, Youth and Social Policy 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.

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 of 55% or above) or equivalent international qualification in geography or other science/engineering discipline.

Fees:
UK/EU: £9,300   International: £19,100

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.

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 Eco-Fuels, the Environment 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 of 55% or above) or equivalent international qualification in geography or other social sciences/humanities discipline.

Fees: UK/EU: £9,300 International: £19,100

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, banking and regulation, and issues of governance.

The programme addresses the need for qualified specialists to provide basic and applied knowledge in the area of increasing globalisation of financial and political networks.

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 current banking and financial markets; 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: Globalisation: Key Debates and Issues; Critical Perspectives on the Global Financial System; Governing Crises; Comparative Foreign Policy: Issues and Cases; International Politics: Issues and Policies; Research Design and Practice; Financial Globalisation; 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 Department of Materials has contributed towards the success of Loughborough University’s teaching and research excellence for over half a century.

We offer outstanding teaching and learning facilities for postgraduates, including a refurbished and extended process and pilot plant area and the Loughborough Materials Characterisation Centre, one of the best suites of instruments of its kind in Europe. Students also benefit from the £17 million STEMLab, offering advanced and up-to-date laboratories for students across a range of disciplines.

Quality research and teaching
The 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. The Department adopts an interdisciplinary approach to research and frequently interacts with other departments and schools on projects.

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. These include the study of nuclear and energy storage materials, materials performance under extreme conditions and nano particle processing to name a few.

Teaching and research is shaped by industry partner feedback of their requirements to ensure graduates are well-prepared for the ever-changing global job 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.

Our programmes
Research opportunities p108
Advanced Materials Science and Engineering MSc/PGDip/PGCert p109
Polymer Science and Engineering MSc/PGDip/PGCert p109

lboro.ac.uk/pg2020/materials
Research opportunities

PhD and EngD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements: An honours degree (2.1 or above) or equivalent international qualification in a related subject.

Fees: UK/EU: see website International: £22,350

Our areas of research

We have recently refurbished our entire building and now have all our new research laboratories fully operational. These include themed laboratories for the following areas: Polymers (chemistry, formulation, processing); Advanced Materials; Ceramics (nanoceramics, formulation and processing), and a new floor containing a suite of 4 Bio-themed laboratories. Our world class characterisation centre has also expanded into new upgraded purpose-designed areas, housing new items of equipment, expanding our characterisation capabilities even further.

The research carried out within the Department of Materials advances our knowledge of the main materials types, including: Advanced Polymers and biomaterials; Metals, including high performance power plant steels and light alloys; Ultrahigh temperature and other functional ceramics, and; Both conventional composites and nanocomposites.

Newly opened research facilities

As a research student in the Department of Materials, you will have the opportunity to not only become an independent researcher but create a lasting network of peers. Attendance at relevant conferences is encouraged, with bursaries for travel made available on a competitive basis.

You will be assigned a supervisory team who, together with the director of doctoral programmes, provides 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.

Critical to all of this activity is the ability to carry out structural and chemical characterisation, to provide a detailed scientific understanding of a materials performance from the atomic scale upwards. Such characterisation is carried out using the state-of-the-art analytical facilities located within the Loughborough Materials Characterisation Centre, based within the Department of Materials. The application areas in which teams of researchers within the department and their research partners are particularly active and in which staff within the Department of Materials are addressing important societal, and other, challenges, include the study and development of novel materials for: Energy generation and storage; Healthcare, including implants, and; Defence.

Underpinning these application areas, studies are also focused on the modelling of materials to understand, for example, service lifetimes in demanding environments. In addition, underpinning work is being carried out into the sustainable use of materials, such as: advanced polymers and their blends; bio-derived polymers and polymer composites.

Taught programmes

Advanced Materials Science and Engineering

MSc/Diploma/PG Certificate

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

Entry requirements: An honours degree (2.2 or above) or equivalent international qualification in a science or engineering subject.

Fees: UK/EU: £10,950 International: £23,500

Programme overview

Our Materials Science and Engineering MSc is designed to meet the requirements of industry, where qualified materials scientists and engineers are highly sought after.

The programme spans the major classes of engineering materials used in modern high technology manufacturing and industry. The knowledge and skills gained can be applied to a wide range of industrial sectors including aerospace, automotive, power generation and distribution, IT, communications and general manufacturing.

The programme will teach students to analyse real-world problems; develop practical materials selection solutions and design with sustainability of materials management.

Modules

Core study areas may include: Advanced materials manufacturing; Nanomaterials and composites; Advanced materials characterisation; Materials modelling; Research methods; Group design project and the MSc dissertation project.

Optional study areas may include: Advances in biomaterials; Science and engineering of colloids; Energy materials; Materials modelling.

How you will be assessed

You will be assessed by written exams, set coursework exercises, laboratory reports, a group design project and a dissertation which includes a literature review and oral presentation.

How you will study

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

Career prospects

Typical graduate careers span many industrial sectors including aerospace, power generation, automotive, construction and transport. Within these sectors, roles range from technical, production and project management to research and development.
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.

Our programmes
Research opportunities p112
Industrial Mathematical Modelling MSc p113
Mathematical Finance MSc p113

lboro.ac.uk/pg2020/maths
Research opportunities

Our areas of research

Analysis and PDEs
The research interests of the group include analysis of PDEs, including hyperbolic equations and systems with multiplicity, 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 dynamics, dynamical chaos in classical 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 geometric spaces; Markov processes and Dirichlet forms; geometric flows, and stochastic analysis.

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 diffraction 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, astrophysics, 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 (nonlinear) 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: not available
Entry requirements: A 2:1 honours degree or equivalent international qualification in a subject with a high mathematical content.

Programme overview
Our Industrial Mathematical Modelling MSc is designed to help you develop the mathematical modelling skills and techniques which are sought after within industry and commerce.

The programme enables you to explore mathematical models of real world processes and their formulation, with a strong emphasis on how these techniques can be applied in industry. You will work in small groups to solve real life problems using these models.

You will also develop skills to solve partial differential equations and learn the basic principles behind the finite element method, which is heavily used in industry for solving structural problems.

Modules
Modules studied may include: Mathematical Modelling; Regular and Chaotic Dynamics; Programming and Numerical Methods; Elements of Partial Differential Equations; 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 graduate destinations include: Software Engineer in New Zealand, PhD study in plasma liquid interactions, Lecturer in higher education, Modeller in the Energy technology Institute.

Mathematical Finance

MSc
Full-time length: 1 year
Part-time length: up to 4 years
Entry requirements: A 2:1 honours degree or equivalent international qualification in a subject with a high mathematical content.

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 core 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, financial 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 department building, which has a spacious student activity area and dedicated state-of-the-art resources.

Modules
Compulsory modules studied may include: Introduction to Measure Theory and Martingales; Stochastic Models in Finance; Stochastic Calculus and Theory of Stochastic Pricing; 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 people from financial companies.

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, seminars, group work and individual study.

Career prospects
Recent graduate destinations include: Business Analyst (Deloitte), Financial 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 Building 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 an eye-movement lab equipped with a state-of-the-art eye-tracker.

Established in 2002, the Mathematics Education Centre brings together a diverse community of around 20 staff, comprising academic staff, project staff, and visiting fellows. It also has 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. Our aim is to maximise opportunity for all.

Our programmes

Research opportunities p116
Mathematics with Qualified Teacher Status PGCE/MSc with QTS p117

lboro.ac.uk/pg2020/mec
Research opportunities

PhD: 3 years full-time, 6 years part-time
MPhil: 2 years full-time; 4 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/EU: see website International: £17,200

How to apply
Projects which have funding attached (e.g. through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

All applicants must submit the following to accompany their application:
• a one-page CV summing up relevant experience and skills
• a one-page cover letter describing their reasons for wishing to undertake research in a 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 work, if appropriate. You are strongly encouraged to contact this person ahead of making an application to work, if appropriate. You are strongly encouraged to discuss your interests and possible research topics.

Our areas of research
Mathematical Pedagogy
The Mathematical Pedagogy Interest Group has expertise in the analysis of existing pedagogical practice, in the design and evaluation of novel practices, and in the research-based promotion of teaching development. Of particular interest to the group are the mechanisms by which students' mathematical identity is shaped by their university experiences and the ways in which the practices of university-level mathematics influences teaching and learning.

The group draws on a wide range of methodological approaches including grounded theory, experimental and quantitative study designs, eye-tracking studies, comparative judgment techniques, international comparisons, social network analyses, and applications of activity theory.

Mathematical Cognition
The Mathematical Cognition Group focuses on understanding the processes by which students come to understand mathematical ideas with a view to improving educational practice. The group has a particular reputation for its work on numerical cognition and mathematical reasoning. Notable recent projects 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 relationship between advanced mathematical study and general reasoning development (Royal Society), the role of children’s spontaneous attention to numerical aspects of the environment in their school mathematics achievement (ESRC) and expert/novice differences in mathematical reading strategies (HEA, OUP and ESRC).

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
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/EU: £9,250 International: £18,650 MSc with QTS: UK/EU: £9,300 International: £19,100

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.

Modules
For module information, and to view the sample calendar for PGCE students, please see our website.

How you will be assessed
You will be assessed through a variety of methods, including 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.
Mechanical, Electrical and Manufacturing Engineering

The School of Mechanical, Electrical and Manufacturing Engineering is a leader in technological research and innovation, with extensive national and international connections to industry.

We have a number of laboratories offering the latest equipment and industry standard software, catering for dynamics and control, automation, fluid mechanics, electrical power generation, renewable energy and energy storage, healthcare engineering, internal combustion engines, materials, mechatronics, radio engineering, metrology, optical engineering, additive manufacturing, structural integrity, and thermodynamics.

Industry leading teaching
Our School supports the technical and commercial needs of society and extends the boundaries of current knowledge. A number of programmes are accredited by one or more professional bodies, including the Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (IMechE), the Institute of Measurement and Control (InstMC), the Royal Aeronautical Society, and the Energy Institute.

As we are home to two prestigious Queens Anniversary prizes, two EPSRC National Centres for Innovative Manufacturing in Regenerative Medicine and for Innovative Manufacturing in Intelligent Automation and have been selected to lead one of ESPRC’s multi-disciplinary Grand Challenges, SYMETA (Synthesizing 3D METAmaterials for RF, microwave and THz applications). Our students are best placed to take advantage of the funding and expertise found within our school.

Graduates of our programmes are highly sought after by industry and commerce world-wide and have gone on to work with companies including accenture, Airbus, BAE Systems, IBM, Jaguar Land Rover and many many more.

Our programmes
Research opportunities p120
Advanced Manufacturing Engineering and Management MSc p121
Electronic and Electrical Engineering MSc p121
Engineering Design MSc p122
European Master’s in Renewable Energy MSc p122
Mechanical Engineering MSc p123
Mobile Communications MSc p123
Renewable Energy Systems Technology MSc p124
Renewable Energy Systems Technology MSc (Distance Learning) p124
Systems Engineering MSc p125
Telecommunications Engineering MSc p125
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant discipline. Applicants with a 2:2 will be considered with a master’s degree (merit or above) or overseas equivalent. For all applicants, a relevant master’s degree or industry experience is advantageous and for some research projects, may be mandatory.

Fees: UK/EU: see website International: £22,350

The Wollson School of Mechanical, Electrical and Manufacturing Engineering is one of the biggest engineering schools in the country and ranks in the top 10 in all main UK subject league tables for its three core disciplines. 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 £52 million 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

Materials and Measurement

We undertake multi-disciplinary research into the response of advanced engineering and bio-materials 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.

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.

Automation and Control

Our research focuses on the evolution that engineering and manufacturing processes will experience due to greater digitalisation and Industry 4.0, in sectors covering aerospace, automotive and rail. This high-impact research involves automation, control systems, human-machine interaction, modelling-simulation, robotics and virtual/augmented reality. We are proud to be an Airbus preferred research and technology university partner.

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.

Systems

This multi-disciplinary research group has strengths in manufacturing ICT tools, design research, sports technology, systems engineering and technology, and operations management.

High Value Manufacturing

We address leading edge, next generation manufacturing processes (bio-manufacturing, laser processing and additive manufacturing), manufacturing technologies (automation, robotics and digital manufacturing), organisation and sustainability.

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.

Taught programmes

Advanced Manufacturing Engineering and Management

MSc

Full-time length: 1 year
Part-time length: 2-8 years (typically 3 years)

Entry requirements: A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline.

Fees: UK/EU: £10,950 International: £23,500

Programme overview

Our Advanced Manufacturing Engineering MSc and Management prepares you for an effective career as a technologist or manager who can meet the engineering, business and societal challenges of rapidly changing global manufacturing markets and industries. You will benefit from industry informed modules and access to a range of state-of-the-art equipment. Our computer labs are open 24 hours a day, 7 days a week and include some of the latest industry standard software, including STAR-CCM and CAD. You will also have access to our high-tech laboratories devoted to a range of engineering study areas: dynamics and control, electronics, fluid mechanics, materials, mechatronics, metrology, optical engineering, structural integrity, and thermodynamics.

The programme is accredited by The Institution of Mechanical Engineers (IMechE) and The Institution of Engineering and Technology (IET).

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 exams, coursework, class presentations and a dissertation.

How you will study

You will study through a range of lectures, tutorials, independent study and practical sessions.

Career prospects

Previous graduates have gone on to work at companies including Caterpillar, KC Engineering, National Oilwell Varco, and Siemens.

*Find out about our new Master’s Level Apprenticeship in Systems Engineering at liboro.ac.uk/meme/apprenticeships

Electronic and Electrical 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.

Fees: UK/EU: £10,950 International: £23,500

Programme overview

Our Electronic and Electrical Engineering MSc provides a thorough knowledge of the principles and techniques of this field of engineering and has been developed in consultation with industry advisors.

The programme draws on the world-class research of the School and you will develop your own research skills through your individual research project, which is supported by an academic. The programme will also enable you to acquire practical and theoretical skills that are valuable in industry.

You will benefit from access to Altera, Cadence, Mentor Graphics, and Xilinx; commercial programming tools (hardware and software) provided by Texas Instruments; full Wave Antenna chambers and microwave test equipment; W visualization systems; and state-of-the-art sports technology laboratories.

Modules

Compulsory modules may include: Sensors and Actuators; Programming Multi/Many-Core Systems; Elements of Pulsed Power Technology; and a project. Optional modules may include: Digital Signal Processing, Communication Networks; Solar Power; Wind Power; Digital Signal Processing for Software Defined Radio; Mobile Network Technologies; Antennas; Engineering Applications; and Radio Frequency and Microwave Integrated Circuit Design.

How you will be assessed

You will be assessed through written and practical exams, coursework, group assessments, laboratory assessments, and an individual research project, which includes a written report and a viva.

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 from this course are highly-qualified to work with electronic systems, including mobile phones, acoustics, defence, medical instrumentation, radio and satellite communication and networked systems, control engineering, instrumentation, signal processing and telecommunications engineering.
Engineering Design

**MSc**
- **Full-time length:** 1 year
- **Part-time length:** 2-8 years (typically 3 years)

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline.

**Fees:**
- UK/EU: £10,950
- International: £23,500

**Programme overview**
Our Engineering Design MSc enables you to work effectively in an engineering design role, whether it concerns the design of products, processes or systems, at an overall or detail level. 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 or academic research. Throughout the MSc, a balance of theory and practice is applied to solving real engineering design problems. All projects meet the product design requirements of one of our many co-operating companies.

**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; Major Project.

**How you will be assessed**
You will be assessed through a combination of coursework and written 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 graduates have gone on to engineering design related jobs in product, process and system design environments, providing project management and communication skills and direct technical input.

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.

**Fees:** Please see lboro.ac.uk/pg2020/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 EUREC (The Association of European Renewable Energy Research Centres). You will be taught about the latest advances in clean power developments and be equipped with the skills and knowledge to design and develop benign renewable energy technologies that can be implemented in countries around the world to reduce our fossil fuel emissions. The programme is divided into three sections. In the first semester at Loughborough you 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 then completing a six-month research project.

**Modules**
- Your first semester will be studied at Loughborough and modules studied may include: Solar Power; Wind Power; Biomass; Water Power.
- Your second semester is undertaken at 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 (IST Lisbon); Sustainable Fuel Systems for Mobility (Hanzee 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**
Previous students have progressed to senior jobs in renewable energy companies throughout Europe from Technical Director at Renewable Energy Systems to General Manager of the London Array.

Mechanical Engineering

**MSc**
- **Full-time length:** 1 year
- **Part-time length:** 2-8 years (typically 3 years)

**Entry requirements:** A 2:1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline.

**Fees:**
- UK/EU: £10,950
- International: £23,500

**Programme overview**
Our Mechanical Engineering MSc 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. The programme will broaden your mechanical engineering knowledge by introducing you to new and modern subject areas, applications and practices, enabling you to develop the technical and transferable skills highly sought after by industry or academic research.

**You will benefit** from our high-tech laboratories devoted to dynamics and control, electronics, fluid mechanics, materials, mechatronics, metrology, optical engineering and high-power lasers, and structural integrity.

As a graduate of our MSc programme, 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, and use team working skills and communicate effectively at an advanced technical level.

**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; Major Project.

**How you will be assessed**
You will be assessed through a combination of coursework and written 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 graduates have gone on to work for a variety of reputable companies including Airbus, BAE Systems, Chicago Bridge and Iron and Jaguar Land Rover in Mechanical, Structural and Development Engineer roles.

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.

**Fees:**
- UK/EU: £10,950
- International: £23,500

**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 formal theory and practical skills to support your long-term career development. You will benefit from being supported by our 5G Research Centre (SGRC), whose work focuses on the future of mobile communications. You will also benefit from recent investment in software, our £17 million STEMLab (including a 3D Printing Suite), Engineering Machine Workshop, and Electronics Laboratory.

**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 written exams, group work 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**
Gaining a master’s degree in Mobile Communications shows potential employers that you have achieved highly developed and complex levels of knowledge, and thus are able to develop in-depth and creative responses to hardware and software technical challenges in this field.
Renewable Energy Systems Technology
MSc
Full-time length: 1 year
Part-time length: See Renewable Energy Systems Technology (Distance Learning) listing
Entry requirements: A 2.1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline.
Fees: UK/EU: £10,950 International: £23,500
Programme overview
Our Renewable Energy Systems Technology MSc is designed to prepare you for a career in the rapidly expanding global renewable energy sector. The programme features practical, industry-focused content which is 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 that the programme maintains relevance in this rapidly-developing, global sector. You will benefit from our world-class experimental and simulation laboratories for your project work and coursework assignments. Project work in the labs gives you a chance to work side-by-side with leading academics and researchers on industrially relevant problems.

Our MSc programme is fully accredited by major UK engineering institutions, including The Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (I MechE) and the Energy Institute.

Modules
Compulsory modules may include: Sustainability and Energy Systems; Solar Power; Wind Power 1; Biomass; Water Power; Integration of Renewables; and a project. Optional modules may include: Advanced Photovoltaics; Solar Thermal Systems; Energy Storage; Energy System Investment and Risk Management; and Wind Power 2.

How you will be assessed
You will be assessed by a combination of written exams, group work 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 graduates work world-wide in senior posts across fields as diverse as research and manufacturing, project development, consultancy, finance, policy and international development.

Renewable Energy Systems Technology (Distance Learning)
MSc
Full-time length: See Renewable Energy Systems Technology listing MSc
Part-time length: 2-8 years (typically 3 years)
Entry requirements: A 2.1 honours degree or equivalent international qualification in a relevant science, technology, engineering or maths discipline.
Fees: UK/EU: £10,950 International: £23,500
Programme overview
Based on our renowned full-time Renewable Energy Systems Technology MSc, this distance learning programme is fully accredited by major UK engineering institutions, including The Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (I MechE) and the Energy Institute.

Our part-time programme offers flexibility in terms of place, pace and learning mode. You will benefit from access to our world-class experimental and simulation laboratories for the duration of your studies. Project work in the labs gives you a chance to work alongside leading academics and researchers on industrially relevant problems.

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 and enable both full-time and distance learning students to achieve the same learning outcomes.

Modules
Compulsory modules may include: Sustainability and Energy Systems; Solar Power; Wind Power 1; Biomass; Water Power; Integration of Renewables; and a project. Optional modules may include: Advanced Photovoltaics; Solar Thermal Systems; Energy Storage; Energy System Investment and Risk Management; and Wind Power 2.

How you will be assessed
You will be assessed by a combination of written exams, group work 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
Graduates of this course are in high demand within a range of renewable energy sectors such as manufacturing, development of generation schemes, utilities, engineering consultancies, finance and local, regional and national government.

Systems 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.
Fees: UK/EU: £10,950 International: £23,500
Programme overview
Our Systems Engineering MSc has been designed in collaboration with industry to meet the challenge of interdependence between all kinds of sophisticated engineered systems.

You will benefit from the use of advanced visualisation techniques to enhance models and simulations of real world systems, including cockpit simulators to study pilot behaviour toward stress and the impact that this has upon their mental agility.

The programme emphasises model-based systems engineering, and you will gain an understanding of and use systems-based computer tools across all modules, including spreadsheets, MATLAB, LabView, System Architect, SysML toolsets, and Triz.

Our MSc programme is accredited by the Institute of Measurement and Control, The Institution of Engineering and Technology (IET), and the Royal Aeronautical Society.

Modules
Compulsory modules may include: Applied Systems Thinking; Systems Architecture; Group Project; and an individual project.

Optional modules may include: Sensors and Actuators for Control; Systems Design; Understanding Complexity; Modeling Simulation and Visualisation for Engineering; Engineering and Management of Capability; Innovation and Entrepreneurship in Engineering; and Holistic Engineering.

How you will be assessed
You will be assessed by a combination of written exams, group work 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
Graduates of Systems Engineering MSc play a key role in the development and design of technologies that make our world safer, cleaner and more efficient. From global infrastructure to local transport and telecommunication, our graduates are at the forefront of technological innovation.
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 experimental facilities, including pulsed laser deposition, atomic force microscopy, Raman scattering and X-ray diffraction, and our own campus observatory.

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 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
Research opportunities
Advanced Physics MSc
Physics of Materials MSc

lboro.ac.uk/pg2020/physics
Research opportunities

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

**MPhil:** 2 years full-time; 4 years part-time

**Entry requirements:** A 2.1 honours degree or equivalent international qualification in physics or a related discipline.

**Fees:** UK/EU: see website International: £22,915

We are a research intensive Physics department, actively engaged with industry, and advancing knowledge across the breadth of the physical sciences.

**Supporting you**
You will be assigned supervisors with expertise in the selected research area, as well as opportunities to consult other departmental academic staff as appropriate. We provide departmental seminars and training courses to support your research and you can develop skills further by supporting undergraduate teaching.

**How to apply**
Projects which have funding attached are advertised on our online prospectus. For self-funded projects or 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 high-temperature superconductors, graphene and topological insulators and superconductors, 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 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.

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)

**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/EU: £10,950 International: £23,500

**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 in superconductivity and nanoscience with options that include quantum computing and solid-state physics. These modules will allow you to apply and communicate your knowledge of materials science via the development of an individual project essay in which you will consider a particular aspect of physics and gain experience in conducting a piece of original applied research.

**Modules**
Compulsory modules studied may include:
- Mathematical Methods for Interdisciplinary Sciences
- Superconductivity and Nanoscience
- Research Methods in Physics

Optional modules may include:
- Characterisation Techniques in Solid State Physics
- Quantum Information
- MATLAB as a Scientific Programming Language
- Advanced Characterisation Techniques
- Quantum Computing
- Physics of Complex Systems

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

**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

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.

Recent years have seen the rise of ‘populisms’, claims that dangerous history is repeating itself, mounting concerns with climate change, an apparent proliferation of security threats, and vocal activists protesting and resisting various injustices across the world.

Politics and International Studies at Loughborough is also home to a strong teaching and research base in modern and international history.

Our research focuses on contemporary politics and political theory, early modern and modern history, international organisation and critical security studies.

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. Graduates 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.

Our programmes
Research opportunities
Security MA
Media Histroy MA

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.

Shane
PhD student

lboro.ac.uk/pg2020/polis
Research opportunities

PhD: 3 years full-time, 6 years part-time  
MPhil: 2 years full-time; 4 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/EU: see website  International: £17,200

Based within the School of Social Sciences and Humanities, the School 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 located in one of five main research areas:

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

 Supporting you  
You will be assigned two supervisors who are international experts in their respective fields plus an internal reviewer and a Director of Doctoral Programmes. This team provides tailored academic and pastoral support throughout your studies. The School runs an extensive programme of research training and you will have the chance to participate in and run seminars and discussion groups. These will help you integrate into the School’s academic community and develop skills that will enable you to present your work at national and international conferences. You will be provided with access to a shared office with networked PC and specialist software, and allowances for photocopying, conference attendance and interlibrary loans.

 How to apply  
Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal. For self-funded projects or those funded by third party sponsors, you are strongly advised to contact spgsresearch@lboro.ac.uk before making an application. This will allow us to ensure that supervision is available and that your proposal falls into an area of established expertise. It also helps us put you in touch with our academics if you want to discuss your ideas informally before you apply. If you wish to make an application, you will also need to submit a research proposal. Please see our online prospectus for guidance.

Our areas of research

Anarchism Research Group (ARG)  
The ARG supports anarchism research across scholarly disciplines at the University and works to raise the profile of anarchist studies through scholarship and public engagement. The group also works in collaboration with the Politicized Practice, and Theatre and Performance research groups based in the Creative Arts study area to question prevailing political, economic and cultural orthodoxies.

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.

Center for Security Studies (CSS)  
CSS produces critical and applied research on politically, strategically, socially and ethnically 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.

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 new 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/EU: £9,300  International: £19,100

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.

Modules  
Modules studied may include: International Politics: Issues and Policies; Research Design and Practice in Security Studies; Security, Conflict and Defence in Global Politics; Security in the Developing World; Governing Crises; Ethical Dilemmas and Security in the 21st Century; Urban Warfare; and Dissertation in Security Studies.

How you will be assessed  
You will be assessed by a mix of oral and written policy briefs on contemporary security issues, team work assignments on crisis management, essays and a dissertation.

How you will study  
You will study through a range of seminars, lectures, independent study 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 diplomacy, journalism, civil service, policy-making, campaigning, and research.

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/EU: £9,300  International: £19,100

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 inter-disciplinary fields in the social sciences and humanities. See page 78 for more information.
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 intersectionalities and citizenship, digital and health technologies 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.

We are being helped to prepare for the next step on our academic path. We have been constantly encouraged and supported to present at conferences, publish academic papers and get involved in research projects and in teaching.”

Bogdana
PhD student

Our programmes
Research opportunities p136
Social Science Research (Social Policy) MSc p137
Childhood, Youth and Social Policy MA p137
Digital Media and Society MA p137

lboro.ac.uk/pg2020/social
Research opportunities

**PhD**: 3 years full-time; 6 years part-time
**MPhil**: 2 years full-time; 4 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/EU: see website
**International**: £17,200

Based within the School of School of Social Sciences and Humanities comprises the disciplines of criminology and social policy, and sociology. 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 intersectionality 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 Policy is proud to be part of the ESRC Midlands Graduate School DTP in partnership with Warwick, Nottingham, Birmingham, Aston and Leicester.

**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/EU: £9,300  International: £19,100

**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 research 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**

**Entry requirements**: A 2.1 honours degree or equivalent international qualification in a related discipline.

**Fees**: UK/EU: £9,300  International: £19,100

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 page 103 for more information.

**Digital Media and Society**

**MA**

**Entry requirements**: A 2.1 honours degree or equivalent international qualification in a related discipline.

**Fees**: UK/EU: £9,300  International: £19,100

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 page 77 for more information.
Sport, Exercise and Health Sciences

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 three 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 country 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.

Our programmes

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"My lecturer in the United States told me if I wanted a master’s degree in sport, exercise and health sciences, then Loughborough was the clear choice. It is truly world-renowned.”

Amber
MSc Exercise Physiology

lboro.ac.uk/pg2020/ssehs
Research opportunities

PhD: 3 years full-time, 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements: A 2:1 honours degree or equivalent international qualification, or a master's degree.

Fees: UK/EU: see website International: £22,350

With globally renowned staff collaborating with other academic institutions, centres and industry partners around the world, the School 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 of Sport, Exercise and Health Sciences 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 national, international 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.

Centres for Doctoral Training

Gender and Sport Centre for Doctoral Training

This multidisciplinary mini-CDT was formed in 2018 and is led by the School of Sport, Exercise and Health Sciences. It supports PhD study across three schools (Sport, Exercise and Health Sciences; Social Sciences; Design School), employing a diverse set of methodologies to explore the critical issue of gender diversity in sports participation, from elite to grassroots levels.

Doctoral Training Partnership (DTP)

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

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 medicine or other relevant biological science that contains a substantial element of exercise physiology, such as applied human physiology or physiotherapy.

Fees: UK/EU: £13,800 International: £23,200

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 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 teaching environments and have access to state-of-the-art laboratories, designed to facilitate the transfer of cutting-edge research to front line support and care.

Modules

Compulsory modules may include: Exercise Testing and Prescription and Strategies for Adherence; Epidemiology of Physical Activity; Interventions for Physical Activity Promotion; Measurement of Physical Activity and Sedentary Behaviour; Quantitative Research; Research Project in Exercise as Medicine.

Optional modules may include: Exercise and Immunology; Sport and Exercise Nutrition; Exercise, Health, Medicine and Society; Emerging Technology for Health and Wellbeing; Mental Health in Exercise and Sport; Psychology of Exercise for Clinical Populations.

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, labs, tutorials, independent study, group work, practical sessions and supervision.

Career prospects

Graduates will be able to pursue careers in the allied healthcare professions, such as exercise-referral specialists and lifestyle consultants, and in higher education and research.

Exercise Physiology

MSc

Full-time length: 1 year
Part-time length: please see website for more information

Entry requirements: An honours degree (good 2:1 of 65% or above) or equivalent international qualification in sports science or other relevant biological science that contains a substantial element of exercise physiology, such as applied human physiology or physiotherapy.

Fees: UK/EU: £10,950 International: £23,500

Programme overview

Our Exercise Physiology MSc is designed to provide you with an in-depth understanding of the physiological, nutritional and metabolic demands of exercise and training, and their implications for participation in sport and for the maintenance of good health.

The programme offers study at a high level across a range of exercise physiology, nutrition, immunology and neuromuscular modules. Physiology practical sessions are taught in a specialist physiology teaching laboratory, which can be partitioned to allow for smaller group work stations or opened up for larger groups or more specialist activity. You will also have the opportunity to use these facilities as part of your research project.

Previous popular research project topic areas include muscle physiology, cardiovascular physiology, biochemistry, metabolism, risk factors for chronic diseases, exercise and appetite, exercise immunology, physiological response to exercise in children, and disability in sport.

Modules

Compulsory modules may include: Physiology of Endurance Performance; Current Research in Exercise Physiology; Laboratory Techniques in Exercise Physiology; Quantitative Research Methods; and a research project.

Optional modules may include: Exercise and Immunology; Vocational Skills in Exercise Physiology; Neuromuscular Function; and Sport and Exercise Nutrition.

How you will be assessed

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

How you will study

Your learning will be supported through a range of lectures, tutorials, independent study, group work, practical sessions and supervision.

Career prospects

Our graduates have gone on to pursue a variety of careers, including Performance Data Analyst (British Skeleton), Manager of Sports Science Department (LA Galaxy), Health and Wellbeing Physiologist (Nuffield Health), Strength and Conditioning Coach (Fulham Football Club) and Performance Sports Scientist (Swim Wales).
Musculoskeletal Sport Science and Health

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 relevant subject, or equivalent professional experience.
Fees: UK/EU: £13,800 International: £23,200

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 (NCSEM-EM), which is accredited by the International Olympic Committee (IOC) Research Centre for Prevention of Injury and Protection of Athlete Health – one of just nine around the world.

Modules
Core modules may include: Orthopaedic Sport Biomechanics; Neuromuscular Function; Physiology of Endurance Performance; Basic Science and Regenerative Therapy; Emerging Technologies for Health and Wellbeing; and a research project.

Optional modules may include: Motion Analysis of Human Movement; Developing Computer Models for sports Biomechanics; and Sports/Musculoskeletal Injury.

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

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. Please see website for full details.
Fees: PGCE: UK/EU: £9,250 International: £18,650 MSc with QTS: UK/EU: £9,300 International: £19,100

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 in secondary schools 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.

Sport and Exercise Nutrition

MSc
Full-time length: 1 year
Part-time length: please see website for more information
Entry requirements: A 2:1 honours degree or equivalent international qualification in nutrition, dietetics, physiology, or sports science with a strong biological sciences component, or a related subject.
Fees: UK/EU: £10,950 International: £23,500

Programme overview
Our Sport and Exercise Nutrition MSc provides you with an in-depth understanding of the nutritional and metabolic demands of exercise, of the interactions between diet, exercise and health, and of how nutrition influences performance in sport.

You will complete modules that cover the fundamental nutritional, physiological and metabolic principles underpinning sport and exercise nutrition practice, as well as modules where you put these principles into practice, plus a project examining a key research question within sport and exercise nutrition.

You will benefit from training in sport and exercise nutrition, which will equip you for future careers research, teaching in higher education, industry, or in applied sports nutrition support.

Please note that this programme is not a substitute for a dietetics qualification.

Modules
Compulsory modules may include: Sport and Exercise Nutrition; Physiology of Endurance Performance; Exercise and Immunology; Applied Nutrition; Advanced Sport and Exercise Nutrition; Laboratory Techniques in Sport and Exercise Nutrition; Quantitative Research; and a research project.

How you will be assessed
You will be assessed through a variety of methods, including, for example, scientific and applied reports, presentations, a research project journal article and exams.

How you will study
Your learning will be supported through a range of seminars, lectures, tutorials, independent study and practical sessions.

Career prospects
Recent graduate destinations include GlaxoSmithKline, Opalbond, Boots UK, United Biscuits, the English Institute of Sport and US Soccer.

Sport and Exercise Psychology

MSc
Full-time length: 1 year
Part-time length: typically 2 years
Entry requirements: An honours degree (good 2:1 of 65% or above) or equivalent international qualification in sport and exercise science, psychology or a related field. Please see website for full details.
Fees: UK/EU: £10,950 International: £23,500

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 exercise while providing a critical understanding of sport and exercise psychology.

The programme is designed and delivered to prepare students for specific career pathways or academic roles in sport and exercise psychology, and sport and exercise science, with a focus on 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; Mental Health in Sport and Exercise; Professional Practice in Sport Psychology; Psychology of the Coach-Athlete Relationship; Quantitative Research; Qualitative Research; 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
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.
Biomechanics services at the National Biomechanics Tennis Association; PhD research at the University
Recent graduate destinations include: Elite athlete
Career prospects
You will be assessed by a combination of exams,
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 benefit from access to a large designated teaching laboratory which can be partitioned into two fully equipped laboratories, allowing independent activities to be performed simultaneously. Throughout the programme you will use key pieces of biomechanics equipment, including 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: Theoretical Biomechanics; Neuromuscular Function; Orthopaedic Biomechanics; Theories and Methods of Analysis in Biomechanics; Developing Computer Models for Sport Biomechanics; Motion Analysis of Human Movement; Quantitative Research; 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 lectures, seminars, practical sessions and group work.
Career prospects
Recent graduate destinations include: Elite athlete support for the English Institute of Sport and the Lawn Tennis Association. PhD research at the University of Queensland and Pennsylvania State University; Biomechanics services at the National Biomechanics Institute (US) and Boardman Bikes, and Biomechanics technology with HawkEye and Vicon.

SPORT, EXERCISE AND HEALTH SCIENCES
LOUGHBOROUGH SCHOOLS AND DEPARTMENTS

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/EU: £10,950 International: £23,500

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 (IOC) 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 Sports 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.

Programme overview
Our 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 the IOC.

Programme overview
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.

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, culture 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; and research into the social, cultural and economic impact of sport. Our academic staff have undertaken projects with many international organisations including Sport England, the International Olympic Committee (IOC) and the European Commission.

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

Career prospects
Recent graduates from Sport Management have gone on to work in the sport industry within and beyond the UK, in countries such as China, India, South Korea and the USA. Some career destinations include: Adidas, Arena Sports, Group M China, London Irish RFC, Qatar Investment Group, and Sense Sport (Switzerland).

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 sports science or a social science discipline.
Fees: UK/EU: £10,950 International: £23,500

Programme overview
Our MSc in Sport Management, Politics and International Development provides 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, culture 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; and research into the social, cultural and economic impact of sport. Our academic staff have undertaken projects with many international organisations including Sport England, the International Olympic Committee (IOC) and the European Commission.

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SPORT, EXERCISE AND HEALTH SCIENCES
LOUGHBOROUGH SCHOOLS AND DEPARTMENTS

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/EU: £7,300 International: £19,100

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, culture 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; and research into the social, cultural and economic impact of sport. Our academic staff have undertaken projects with many international organisations including Sport England, the International Olympic Committee (IOC) and the European Commission.

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

Career prospects
Recent graduates from Sport Management have gone on to work in the sport industry within and beyond the UK, in countries such as China, India, South Korea and the USA. Some career destinations include: Adidas, Arena Sports, Group M China, London Irish RFC, Qatar Investment Group, and Sense Sport (Switzerland).
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/EU: £10,950 International: £23,500

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. It also enables you to immerse yourself in the strength and conditioning environment, undertaking an extended coaching internship with either Loughborough University performance athletes or external 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 Science; The Science Underlying 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 group work.

How you will study
Your learning will be supported through a range of seminars, lectures, 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 of the School of Sport, Exercise and Health Sciences have gone on to pursue roles in strength and conditioning and coaching for a variety of organisations including Fulham Football Club, Spartans Football Club, SportF81, the England and Wales Cricket Board, the Aquatic Sports Association of Malta, Cressey Sports Performance, and Norwich Football Club.

“There is a lot more to Loughborough than just the degree and I would urge anyone to find the time and get involved.”
Loughborough University London institutes

Loughborough University London 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.
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 comprehensive programmes in design innovation and management, entrepreneurial design 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 Design School, 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 or support the development of an existing product or service, 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.

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.

Our programmes

Research opportunities p152
Design and Culture MA p153
Design Innovation MA/MSc p153
Design Innovation Management MSc p154
Entrepreneurial Design Management MSc p154

Imogen
MSc Design Innovation Management

“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.”
Research opportunities

The Institute for Design Innovation welcomes explorative research proposals with novel methodologies and creative approaches to the grey areas of design research.

The research agenda of the Institute for Design Innovation builds on the idea that design contributes to and enables innovation in multiple ways and on various levels.

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 knowledge to enhance your career prospects in various disciplines.

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 industry. Possible progression routes within industry include new product development, innovation, research and development, marketing, human resource management and much more.

Doctoral Training Partnership (DTP)

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

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/EU: £10,900 International: £25,500

Programme overview

You will learn from the most influential thought leaders, pioneering researchers and creative innovators, exposing you to the latest theories and developments from across the discipline. You will be exposed to the latest knowledge and advances in design, and will develop innovative design skills and collaborative behaviour through a mixture of active learning and project work.

Each module will develop your design innovation knowledge by analysing and evaluating problems and responding to genuine industry challenges. Our inspiring learning environment will encourage you to think creatively and improve your effectiveness as an innovation designer.

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 to roles across a range of disciplines.

Modules

You can expect to study modules which focus on the following topics: identity, culture and communication; design thinking; foresight and strategy; reflection and action; and meaning making in design. You will also complete a design innovation 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

This programme will provide you with the right skills and knowledge to enhance your career prospects in user-centred design. You will be a qualified professional versed with many new and developed design skills, and will be experienced in interdisciplinary teamwork.
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/EU: £10,900 International: £25,500

Programme overview
You will enhance your design skills and knowledge through theoretical and practical modules on a range of topics. In turn, you will develop your effectiveness as a designer and entrepreneur to enable you to pursue a broad range of design management careers in the private and public sectors.
You will learn the value of collaborative behaviour and team work through modules such as the design innovation project, and will gain an insight into the inner workings and pressures facing a real organisation.
Successful graduates might expect to gain management roles in marketing, new product development, innovation, research and development, and the technology sector. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking a PhD programme.

Modules
You can expect to study modules which focus on the following topics: design thinking; reflection and action; meaning making in design; innovation management; entrepreneurship; and intellectual property. You will also complete a design innovation project and a dissertation under the supervision of an academic member of staff, which can also be supported by an external organisation.

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 would have the skills to gain senior management roles in a range of sectors, including marketing, new product development, innovation, research and development and technology.

Entrepreneurial Design 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/EU: £10,900 International: £25,500

Programme overview
Our Entrepreneurial Design Management MSc programme will teach you how to take an idea from the drawing board to the marketplace.
You will learn about the practicalities and challenges of establishing and running your own product design or manufacturing business, and will uncover how enterprising skills can influence and inform the design process.
You will learn about the inner workings and challenges facing small enterprises and will discover how to establish your own business in the creative, design and manufacturing sectors.
Graduates of the programme are well prepared for management roles with small creative enterprises, and will be equipped with the knowledge and insight required to launch their own start-up.

Modules
You can expect to study modules which focus on the following topics: design thinking; reflection and action; funding; new venture creation; understanding organisational failure; meaning making in design; entrepreneurship; and identity, culture and communication. You will also complete a design innovation 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, 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 support you to pursue a broad range of management careers in the private and public sectors. In particular, we aim to enhance your career prospects and prepare you for roles in entrepreneurship and the management of small enterprises.

“...The social, friendly environment creates a home away from home, and I couldn’t ask for a more like-minded and supportive environment in which to study.”
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 systems for data analytics in sports, intelligent mobility, security and privacy, marketing, human behaviour analysis, and other application areas, Internet of Things, cyber security, immersive and interactive technologies and 5G mobile applications.

The Institute for Digital Technologies is committed to building strong collaborations with academics, researchers and industrial organisations. Some of these partnerships 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 with the Institute for Digital Technologies are provided with unrivalled access to industry partners and participate in large-scale 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 p158
Cyber Security and Big Data MSc p159
Digital Creative Media MSc p159
Digital Design Innovation MSc p160
Digital Innovation Management MSc p160
Digital Marketing MSc p161

The London campus is in a great location and has provided fantastic opportunities to meet people from a wide range of industries.

Teodora
MSc Digital Marketing

“The London campus is in a great location and has provided fantastic opportunities to meet people from a wide range of industries.”
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time
Entry requirements: A 2:1 honours degree or equivalent international qualification.
Fees: UK/EU: see website International: £22,350

The Institute for Digital Technologies offers research expertise and experience in a wide range of subject areas. Our academics are leading researchers in their field, and are extremely well-networked with professionals in a range of industries and sectors.

By pursuing one of our postgraduate research programmes, you 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 digital applications and solutions.

Prospective students with a desire to conduct high quality research, push the frontiers of knowledge and create a real impact are encouraged to make contact with the Institute of Digital Technologies before submitting an application.

Our areas of research

Current research within the Institute focuses on several research themes, including:

Human Behaviour Analysis

Affective computing and emotion recognition, human-computer interaction, activity recognition and monitoring, biometric data processing, person re-identification and personality analysis.

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.

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, consumer profiling, social network analysis and insight generation, digital technologies for online data analysis and personalised marketing.

Advanced 5G applications

Processing and transmission of high-bandwidth, low-latency and interactive VR and AR media, Ultra-HD, 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.

Trust, Identity, Privacy and Security

Privacy-preserving data processing techniques, advanced cryptographic techniques; 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 variety of high tech digital industries.

Taught programmes

Cyber Security and Big Data

MSc

Full-time length: 1 year
Part-time length: up to 4 years
Entry requirements: A 2:2 honours degree or equivalent international qualification. Please see our website for full details.
Fees: UK/EU: £10,900 International: £25,500

Programme overview

Our Cyber Security and Big Data MSc will provide you with the skills to respond to imminent and emerging cyber-threats faced by today’s digitalised industries. This programme has been developed to master the use of big data analytics in cyber security. You will be provided with the principles of deep learning and neural networks for cyber-threat mitigation, advanced encryption methods to protect data privacy and digital forensics to investigate cyber-attacks.

You will be given the opportunity to support major technology projects with the Institute for Digital Technologies. Optional industrial internship opportunities will also help to bring you up-to-date with the latest knowledge and skills required in the sector.

Modules

You will have the opportunity to study modules which focus on: principles of data science; applied cryptography; information systems security; cybersecurity and forensics; advanced big data analytics; information management; Internet of Things and applications; cloud applications and services; media processing; and digital application development. 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 exams and assignments 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 our MSc Digital Creative Media programme will provide you with several career pathways in a range of media and creative industries and related sectors, such as music, TV, film and other media content production, studio management, gaming, broadcasting, 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 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. Please see our website for full details.
Fees: UK/EU: £10,900 International: £25,500

Programme overview

Our Digital Creative Media MSc will help you develop your digital and creative skills across many media platforms, applicable to various sectors. Specially crafted topics include focus on gaming technologies, media production and creative media design and practices, digital application development, digital creative media audiences, as well as, markets and industries. You will also benefit from experiences in 3D creative media and studio.

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; advanced 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, which will vary depending on the module choices you make. You can expect to complete exams and assignments 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 our MSc Digital Creative Media programme will provide you with several career pathways in a range of media and creative industries and related sectors, such as music, TV, film and other media content production, studio management, gaming, broadcasting, 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 Design Innovation

**MSc**

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<th>Full-time length: 1 year</th>
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<td><strong>Entry requirements:</strong> An honours degree (2.2 or above) or equivalent international qualification. Please see website for full details.</td>
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<td>UK/EU: £10,900 International: £25,500</td>
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**Programme overview**

New for 2020, our Digital Design Innovation MSc will offer an intensive one-year exploration of the latest opportunities and developments influencing digital design innovation. Teaching from renowned academics in the areas of digital technologies and design innovation will enable you to develop your understanding of the global reach of digital design innovation through potential new technologies and their creative use.

You will develop and enhance the skills needed to design and develop viable strategies for the latest digital products and services. Teaching is based on current and original research being undertaken in both digital technologies and design innovation areas, to give you the opportunity to gain critical insights into the most innovative digital services and solutions.

**Modules**

You will have the opportunity to study modules on the following topics: digital services; digital application development; design thinking; media design and production; digital design innovation project; cloud applications and services; gaming technologies and systems; advanced 3D media environments; foresight and strategy; Internet of Things and applications. 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.

**Who should study this programme?**

Our Digital Design Innovation MSc will appeal to a broad range of individuals with an interest in transforming innovative ideas and design processes into successful digital products and services.

## Digital Innovation Management

**MSc**

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<td>UK/EU: £10,900 International: £25,500</td>
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**Programme overview**

Our Digital Innovation Management MSc provides 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; information systems security; principles of data science; advanced big data analytics; digital technologies for market analysis; media design and production; digital application development; intellectual property; and understanding business failure.

**How you will be assessed**

You will complete written and practical assessments, which will vary depending on the module choices you make. You can expect to complete essays and exams of varying lengths, 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 seminars on a range of topics.

**Career prospects**

Graduates of this programme will possess the technical ability and management skills to launch their own digital start-ups. Others may join a start-up or other established tech-focused enterprises.

## Digital Marketing

**MSc**

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<td>UK/EU: £10,900 International: £25,500</td>
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**Programme overview**

Our Digital Marketing MSc programme will provide you with a comprehensive understanding of principles of digital marketing and strategic marketing management, which will allow you to address associated challenges in the most effective way.

You will receive insight and experience on brand management and digital marketing strategies, covering content marketing, website marketing, social media marketing, mobile marketing, and more. You will graduate with the key knowledge and skills required to enter a variety of digital marketing roles focusing on market research and analysis, strategic marketing, communication and campaign marketing.

**Modules**

You will have the opportunity to study modules which focus on the following topics: strategic marketing management; digital practices for customer engagement; digital technologies for market analysis; advanced big data analytics; international marketing; introduction to digital technologies; digital media audiences and markets; design practices in digital industries; strategy and planning; gaming technologies and systems; 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 essays and exams of varying lengths, 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**

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.
Diplomacy and International Governance

The Institute for Diplomacy and International Governance offers unrivalled insight into the key challenges and opportunities that arise as old paradigms and models of global order continue to expose their limitations.

From questions of international business, trade and management to the matter of the UK's global role, we address the pressing contemporary issues of today's and tomorrow's world.

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.

Our programmes are designed to expose you to 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 of the UK's exit from the EU.

Our academics are renowned for their research and insights into some of the world's most pressing issues, such as security, extremism, political negotiations and international business and trade.

Our programmes

- Research opportunities
- Diplomacy, Business and Trade MSc
- Diplomacy and International Governance MSc
- Security, Peace-building and Diplomacy MSc

lboro.ac.uk/pg2020/diplomacy

Aris
Diplomacy, Business and Trade MSc

“The proximity to the diplomatic opportunities that London offers, along with the uniqueness of each of the modules has made my studies thoroughly enjoyable.”
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

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

Fees:
UK/EU: see website
International: £17,200

Research is at the heart of the Institute for Diplomacy and International Governance. If you are interested in addressing complex issues involving modern diplomacy, international security, international business and trade, global communication and information management, then pursuing a PhD in the Institute for Diplomacy and International Governance could be for you.

By pursuing one of our postgraduate research programmes, you 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 solutions to problems affecting diplomacy and international governance.

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

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/EU: £10,900
International: £19,600

Programme overview

Our Diplomacy, Business and Trade MSc provides an extensive overview of the practice and development of international business and economic 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, and the knowledge of the current issues characterising relations between diplomacy, international business, and international trade.

Modules

• international political communication and diplomatic discourse
• Russia-West relations
• terrorism, extremism and radicalisation.

We currently supervise PhDs in the fields of UK immigration policy and governance; radicalisation and extremism amongst young adults in the UK; the Europeanisation of Northern Ireland and political identity in a peace process; public and cultural diplomacy and women as agents of change in Ukraine.

Career prospects

Graduates of this programme will be equipped with the skills and knowledge required to pursue a career in diplomatic service for government or intergovernmental organisations, as well as in non-governmental and the commercial sectors. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking an MPhil or 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/EU: £10,900  International: £19,600

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 relationship 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 which include the following topics: controversies and concepts in diplomacy and international governance; the art of governance (diplomacy, lobbying and negotiations); foreign policy analysis; diplomatic communication; diplomacy and governance of the global economy; peace-building; international security; and the politics and practices of International Organisations. 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. Exams 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 an MPhil or 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/EU: £14,500  International: £26,300

New in 2019, our Risk, Governance and International Management MSc represents a joint degree from the Institute for International Management and the Institute for Diplomacy and International Governance. Please see page 178 for more information.
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.

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 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.

In annual international conference held on campus explores cutting-edge research in entrepreneurship and innovation, and underscores the importance of research to the Institute and the University as a whole.

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.

Our programmes

Research opportunities p170
Entrepreneurship and Innovation Management MSc p171
Entrepreneurship, Finance and Innovation MSc p171
Managing Innovation in Creative Organisations MSc p172

lboro.ac.uk/pg2020/innovation

“The Enterprise Hub on campus is impressive – they regularly organise guest speakers and skills sessions to inspire us and improve our employability.”

Thanakorn
MSc Entrepreneurship and Innovation Management

£

90% FEE REDUCTION FOR SELECTED STUDENTS WITH AN INSPIRING BUSINESS IDEA
Research opportunities

The Institute for Innovation and Entrepreneurship works collaboratively with organisations from a number of industries and sectors. As well as providing access to primary data from a broad range of sources, these collaborations help to shape the research focus of the Institute and ensure research is delivering impact for industry and society. The Institute for Innovation and Entrepreneurship is focused on understanding innovation and entrepreneurship in a variety of contexts. Current research explores how innovation may be harnessed to start, grow, and sustain organisations, and how entrepreneurial behaviour can address social problems in today’s rapidly evolving world.

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.

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
- business model innovation
- entrepreneurship ecosystem
- innovation ecosystem.

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.

Family Firms

- innovation and entrepreneurship across generations
- governance in family firms, including boards, trustees, and family councils
- family versus non-family relationships (harmony/conflict)
- leadership
- decision-making
- the importance of cultural, political, legal and economic context
- family exit and management buy-outs.

Social Science and Enterprise

- entrepreneurial creativity and imagination
- gender intersectionality and entrepreneurship.

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 entrepreneurship, investment, business growth and research and development.

Taught programmes

Entrepreneurship and Innovation Management

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

This programme will give you an in-depth understanding of the importance of an entrepreneurial attitude and opportunity recognition. You will also critically evaluate factors affecting the success of innovations in start-ups and established organisations. You will analyse and evaluate problems using a variety of tools and will develop a deeper understanding of the complexities of the innovation process. You will gain an understanding of what investors look for in entrepreneurs, managers and organisations, and you will discover the types of funding available. Your research, communication, leadership and team-working skills will be developed over the course of the programme, enabling you to compete effectively in a contemporary, dynamic business environment.

Modules

You will have the opportunity to study modules which focus on the following topics: innovation management; entrepreneurship; new venture creation; funding; business statistics; managerial economics; family business; intellectual property; strategic and market analysis 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. You will also complete a dissertation.

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 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.

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. Certain optional modules require knowledge of algebra, introductory concepts of probability and basic maths.

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 access 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 is fed 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; strategy and market analysis; funding; entrepreneurial finance; governance for start-up companies; new venture creation; business statistics; and managerial economics. 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, case studies and exams 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 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/EU: £14,500  International: £26,300

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; business; and understanding organisational failure. You will also complete a collaborative project and an independent research or project-based 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 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 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 will develop expertise in a range of emerging market economies over the next few years.

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 global 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

Research opportunities p176
International Management MSc p177
International Management and Emerging Economies MSc p177
Management and Work in a Global Context MSc p178
Risk, Governance and International Management MSc p178

lboro.ac.uk/pg2020/international-management
Research opportunities

Our areas of research

The Institute for International Management is actively engaged in international research projects concerning the globalisation of economic activity and the implications for patterns of work, sustainability, (political and other) risks, and governance.

Globalising actors/activists in multinational companies

The Institute is currently involved in a major ongoing ESRC funded project investigating globalising actors, namely those who create, disseminate and implement new global norms in multinational companies.

Law, corporate governance and development

This research area focuses on the role of macro-level factors in shaping globalisation, specifically how governments and international organisations, through their reform programmes, shape the convergence process of corporate governance practices.

The internationalisation of firms from emerging economies

A third area of study of the Institute is the rapidly growing outward foreign direct investment (OFDI) from emerging economies. This research area seeks to understand the institutional determinants and consequences of OFDI from emerging markets.

Comparative political economy of work

A fourth research area within the Institute focuses on the comparative and historical analysis of work and employment relations within Europe and North America. This includes investigating models of global best practice for work organisation and labour management, such as lean production and business process re-engineering.

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 international business, leadership, growth and development.

Taught programmes

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/EU: £14,500 International: £26,300

Programme overview

This 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.

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 2:1 honours degree or equivalent international qualification.

Fees: UK/EU: £14,500 International: £26,300

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 in a diverse world; international business and entrepreneurship in developing economies; political risk in emerging economies; global strategy and 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 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.
Management and Work in a Global Context

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/EU: £14,500
International: £26,300

Programme overview
This interdisciplinary programme will draw on theories, principles and teaching from a broad range of disciplines to analyse how macro-level global competitive pressures and national institutions impact the management of people in different organisations. We will discuss the role of formal and cultural institutions in shaping organisations and the economy, and will evaluate how models of global best practice regarding work organisation and labour management spread unevenly across national borders. You will also gain a detailed insight into the impact of workplace politics and culture, and how these factors can shape the organisation of work and present problems of conflict, negotiation and accommodation.

Modules
You will have the opportunity to study modules on the following topics: management in a diverse world; comparative political economy; international and comparative employment relations; sociology of work; and diversity in global organisations. 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 will equip individuals with the knowledge and skills required to support business development and growth on a regional, national and international scale.

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/EU: £14,500
International: £26,300

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. We will examine 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 in a diverse world; international business and entrepreneurship in developing economies; corporate governance, the state and development; political risk; corporate political activity; corporate risk management; corporate social responsibility; economic global governance; and global strategy. You will also complete a dissertation and a collaborative project.

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.

“We’re taught by experienced academics who are genuinely passionate about their research. Having access to this knowledge and sharing their vision is really inspiring.”
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 very international academic community, with commanding knowledge and expertise of the media and related industries and organisations, including the music, 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.

Victor
MA Media and Creative Industries

“My studies combined theory with lots of practice inside and outside the classroom.”

Our programmes

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lboro.ac.uk/pg2020/media
Research opportunities

The Institute for Media and Creative Industries boasts a talented, 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, and to contribute to a talented, close-knit research community, then a PhD with 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.

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. We have experience of conducting empirical research across the globe and are particularly interested in global perspectives on media, communications and social life.

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 variety of media and communication roles within the public and private sectors, ranging from sport, gaming and technology, to press, policy and community focused positions.

Doctoral Training Partnership (DTP)

Media and the Creative Industries participate in the AHRC technē DTP, in partnership with 8 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

Communication and Cultural Policy

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/EU: £10,900
International: £19,600

Programme overview

This programme will explore the debates surrounding the implications of communication and cultural policies for democracy, equality and the economy, to prepare you for employment across a broad range of industries. You will develop an understanding of the conceptual foundations of cultural policy from an international context. You will also learn how to interpret, evaluate and apply advanced knowledge on the theory, history and comparative aspects of cultural policy in an innovative way, fostering your ability to critically analyse communication and cultural policies across a broad range of global and national contexts.

Modules

You will have the opportunity to study modules on the following topics: network information and communications policy researching media industries; cultural policy, global cities, media and communications; media audiences and users; cultural industries and creative labour/cultural work; social identities and media; media and social movements; London as a global city; the BRICS and the changing world order and media law and policy. 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, 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 will be well placed to enter regulatory and policy-making roles for non-governmental organisations, charities, media agencies, arts institutions and cultural management positions in both the public and private sectors.

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/EU: £10,900
International: £19,600

Programme overview

Our Global Communication and Development MA investigates the debates surrounding communications and cultural policies for democracy, equality and the economy, focusing on diverse markets such as Latin America, South Africa and Asia. 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, communication and social change; researching media industries; critical studies of the global south; media and social movements; social identities and media; media and social movements; media audiences and users; cultural industries and creative labour/cultural work; media law and policy. London as a global city; 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.
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/EU: £10,900  International: £19,600

Programme overview
Our Media and Creative Industries MA programme explores cultural theories, as well as political, gender 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.

On completion of the programme, you will be prepared for employment in a variety of media and communication roles within public, private or third sector companies, ranging from sport, gaming and technology to press, policy and community-led initiatives. Graduates will also have the opportunity to study a PhD.

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; cultural industries and creative labour/cultural work; social identities and media; media and social movements; London as a global city; the BRICS and the changing world order; and media law and policy. 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.

“Loughborough University London has a creative and open-minded atmosphere. The lecturers and professors are all really knowledgeable and friendly, which makes working together more fun.”
The Institute for Sport Business works to continue the legacy of the London 2012 Olympic Games by delivering a dynamic and pioneering range of programmes to deliver excellence across the sport business sector.

Named as the world’s best university for sports-related subjects for three consecutive years (QS World Rankings by Subject 2017, 2018 and 2019), 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 and change, innovation, technology, and social responsibility.

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 Jobs, Chelsea Football Club, the Sport Industry Group, Two Circles, Foundation for Leadership through Sport, the Sport Technology Awards, and Mill Harbour Marketing.

"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
MSc Sport Marketing

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Sport Business and Innovation MSc p189
Sport Business and Leadership MSc p190
Sport Marketing MSc p190

lboro.ac.uk/pg2020/sport-business
Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

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

Fees: UK/EU: see website International: £23,350

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 innovation and leadership in the business of sport, a PhD with the Institute for Sport Business could be for you. The institute especially welcomes interest into gender, entrepreneurship, corporate and social responsibility, and technological applications to sport businesses, organisations and teams.

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 variety of roles within the sport business sector. Possible graduate roles include data analyst, market researcher, performance analyst, participation and engagement specialist and much more.

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/EU: £10,900 International: £25,500

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 when applying for positions 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.

You will have the opportunity to study modules on the following topics:

• organisational behaviour in the sport industry; sport economics and law; new media and analytics for sport business; digital sport technologies: evolution and application; social impact, capital and legacy; sport and (C)SR.

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 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 prepare you for careers in sport, business and business innovation. Opportunities may include careers in commercial 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.
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; analysing the construction of leadership for a sport context; sustainability and leadership for sport organisations; critical reflective leadership and sport management; sports business and innovation; sport integrity; sport economics and law; new media and analytics for sport business; sport business statistics and analytics; organisational behaviour in the sport industry; international and comparative employment relations: sport industry focus and strategic sports sponsorship. You will also complete a collaborative project and a dissertation.

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.

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 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. Graduates of this programme will be suited to roles in brand management, marketing communications, social media marketing and digital marketing.

Modules
You will have the opportunity to study modules on the following topics: sport marketing; strategic sports sponsorship; international marketing; design innovation project; sport economics and law; sport business statistics and analytics; digital sport technologies: evolution and application; sport integrity; sports business and innovation; international and comparative employment relations: sport industry focus 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 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
Graduating from this programme will provide you with job opportunities in brand management, marketing communications, social media marketing and digital marketing. Graduate roles include Online Community Manager, SEO Specialist and Social Media Executive. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking a PhD programme.
Next steps

Now you have decided to continue your journey, it is time to consider the process of applying and how you intend to fund your studies.

To help you as much as possible, we have included in this next section lots of useful information about the fees you can expect to pay and the different types of postgraduate funding options available. You will also find information on our master’s and research application processes.
Fees and funding

Studying a postgraduate programme with Loughborough University is a significant but incredibly rewarding investment into 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.

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.

Part-time and continuing students
Fees are reviewed annually and are likely to increase to take into account 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.

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. Please see our website for full details.

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.

Other sources of funding
There are a number of additional 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. More information is available at lboro.ac.uk/pg/fees-funding

UK Government master's loan
If you are a UK or EU student living in England, you may be eligible to apply for a loan of up to £10,910 to support the cost of your studies. 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. See www.gov.uk/masters-loan for more information.

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.

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 a number of studentships and grants for doctoral study, which often include the cost of fees and a generous stipend. These studentships are advertised on our website.

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 manages a small number of international grants.

UK Government doctoral loans
The UK Government has introduced new doctoral loans of up to £25,000 for PhD and equivalent postgraduate research programmes. The loan is suitable for full-time and part-time postgraduate research students undertaking programmes lasting up to eight years. For eligibility information, please see our website.

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.

How to apply

All masters and research degree applications can be made via our application portal online (with the exception of PGCE programmes; please see below).

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 your application is successful, we will send you an email with details of any conditions you must meet before your place is confirmed.

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.
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