



Loughborough
University

£17+
MILLION INVESTMENT IN
STATE-OF-THE-ART
STEM FACILITIES



TOP 10
UNIVERSITY
IN ALL NATIONAL
LEAGUE TABLES

Natural Sciences

School of Science



ACCREDITED BY
THE SOCIETY FOR
NATURAL SCIENCES





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Why study Natural Sciences at Loughborough?

Today Loughborough University is one of the UK's leading centres of excellence for teaching and research in Science, Technology, Engineering and Mathematics (STEM) – with a proven track record in supplying industry with high-calibre, highly motivated graduates.

The demand for STEM graduates across sectors is huge, and only expected to grow. But scientific advances are increasingly driven by people working across disciplines and applying broad-based knowledge that provides cutting edge solutions to complex problems.

The course is accredited by the Society for Natural Sciences - a professional body for scientists, educators and students working across the discipline boundaries of science.

Designed to give students the flexibility to tailor their studies to their passions and aspirations, the course draws on the University's expertise in biosciences, chemistry, geography, materials, mathematics and physics.

At Loughborough University, you will become part of an inspirational scientific community that is actively involved in research that matters, addressing major global imperatives like climate change, clean power, renewable energy, crime and security, and the prevention, detection and treatment of diseases.

Developing the powerful skills needed to work between disciplines and communicate across them, you will learn from academic staff who are internationally renowned experts in their respective fields and active in interdisciplinary research. You will also benefit from the University's ongoing investment in state-of-the-art laboratories, teaching facilities and learning resources.

**RANKED
10th**
UNIVERSITY
RANKED 10TH
THE GUARDIAN
UNIVERSITY GUIDE
2022

7th
UNIVERSITY
RANKED 7TH
THE COMPLETE
UNIVERSITY GUIDE
2023

**TOP
10**
UNIVERSITY
RANKED 10TH
THE TIMES AND SUNDAY
TIMES GOOD UNIVERSITY
GUIDE 2022



Placements and careers

As scientific research at the boundaries of the traditional disciplines becomes increasingly vital, so does the demand for graduates with expertise in multiple scientific disciplines.

The sheer breadth of study you will undertake over the course of your Natural Sciences degree opens up a wealth of opportunities for careers and further study.

Gain experience with a placement year

Students taking the four-year course (five for MSci) spend a year on placement in a real job with real responsibilities.

Loughborough has strong industry links which help our students secure year-long and flexible work placements in the UK and overseas. These placements are an invaluable opportunity to advance your skills, and apply your knowledge in the working environment. They can help you stand out in the competitive market for graduate jobs and sometimes enable you to secure a conditional job offer ahead of your graduation.

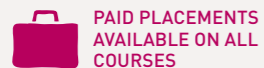
Students across our courses have undertaken incredible placements with incredible organisations, including:

- CERN (the European Organization for Nuclear Research)
- AstraZeneca
- BioFocus DPI
- Pfizer UK
- Reckitt Benckiser
- Alvotech
- Siemens AG
- 3M Healthcare

Excellent career prospects

The course was new for 2018 and graduate outcome data is not yet available. However, the interdisciplinary skills you will develop have value in a wide range of organisations and roles across sectors, opening up all kinds of possibilities for your future employment or research.

Graduates from Loughborough's science and engineering courses have gone on to pursue rewarding careers with major recruiters such as Rolls-Royce, British Glass, IBM, Total Gas and Power, GlaxoSmithKline, Ernst & Young, and Lilly Industries.



PAID PLACEMENTS
AVAILABLE ON ALL
COURSES



HOME TO ONE OF THE
UK'S LARGEST ANNUAL
CAREERS FAIRS



STEMLAB
€17+ INVESTMENT IN
STATE-OF-THE-ART
STEM FACILITIES

Outstanding facilities

Loughborough University's emphasis on developing practical skills alongside knowledge ensures our students gain hands on experience in our world class laboratory facilities.

Extensive investment in the student learning environment has seen the creation of new chemistry, materials and physics laboratories in the University's €17m+ STEMLab development in addition to the ongoing refurbishment of existing facilities, including recently opened labs for materials, further investment relocating and updating our biology 'web labs', and new bespoke resources for mathematical sciences.

Our computer labs offer IT, CAD, modelling, materials selection and process simulation applications, and the University is well-equipped for 3D laser-printing, materials processing, testing, analysis, electron microscopy, x-ray, thermal and surface analysis. We also have our own campus observatory, optics labs, and the latest technology and laboratory facilities for carrying out geographical research.

STEMLab

STEMLab is our €17m+ facility that provides a state-of-the-art learning environment for science and engineering students. Opened in 2017, STEMLab forms part of a wider €25m investment in the West Park of our campus and offers an innovative and modern way for students across disciplines to work and collaborate.

Mathematics Learning Support Centre

Open to all students who need a helping hand with mathematics and/or statistics, the MLSC offers private and group study areas, daily drop-in sessions and free advice.



UNIVERSITY AWARDED
5* FOR TEACHING AND
FACILITIES
INTERNATIONAL QS STARS
SCHEME 2020

Radhika

“The most enjoyable part of my course is learning about the various sciences and being able to incorporate them into each other.”



Natural Sciences

MSci (Hons) DIS/DPS/DIntS*: 5 years full-time with placement year
UCAS code: FCG0

MSci (Hons): 4 years full-time
UCAS code: CGF0

BSc (Hons) DIS/DPS/DIntS*: 4 years full-time with placement year
UCAS code: CFG0

BSc (Hons): 3 years full-time
UCAS code: GFC0

Typical offers

A level: AAA (MSci) or AAB (BSc) including two or three sciences. Dependent on the chosen pathway (see online prospectus)

IB: (MSci) 37 (6,6,6 at HL) or (BSc) 35 (6,6,5 at HL) including two or three Sciences at HL. Dependent on the chosen pathway (see online prospectus)

BTEC Level 3 National Extended Certificate: D plus AA (MSci) or AB (BSc) from two Sciences. Dependent on the chosen pathway (see online prospectus)

GCSE: GCSE Maths grade 4/C



*Diploma in Industrial/Professional/International Studies

** Some pathway combinations may not be possible. Please visit the online prospectus for additional information.

The module information reflects the currently intended course structure and module details. Updates may be made on an annual basis and revised details will be published through Programme Specifications ahead of each academic year.



The complex problems we face in the modern world increasingly require scientists to adopt a multidisciplinary approach in the search for solutions.

Our Natural Sciences degree offers the flexibility to study a combination of physical science disciplines including chemistry, bioscience, physics, mathematics, geography and materials with increasing specialisation across the years**.

Developing the powerful skills needed to work between disciplines and communicate across them, you will be taught by academic staff who are internationally renowned experts in their respective fields and active in interdisciplinary research. You will be mentored to work independently and across the disciplines, conducting your own laboratory-based project.

Year 1

In your first year you will undertake a core skills element which will support your development as a natural scientist working across disciplines. Alongside this you will choose two pathways from the following: Chemistry, Bioscience, Maths, Physics, Geography and Materials. Your chosen pathways will determine which modules you will take in this year and onto the pathways you will follow in later years. You are required to study 120 credits each year, with 80 credits in the first year being selected depending on your pathway options, giving you opportunity to flexibly develop your skills within your degree.

Year 2

In Year 2 you will concentrate your studies across two pathways, based on progression from year 1. One core module for all Natural Science students spans across the year, covering the need and ambition for interdisciplinary science. This will develop your communication skills and awareness of how to tackle problems from varying perspectives.

Optional placement/study abroad year

Students can choose to spend their third year on placement in an approved occupation relevant to their degree. Satisfactory completion of the placement leads to the award of the Diploma in Professional Studies, gaining valuable experience to support your future career. If you are interested in travelling whilst you study, there are placement opportunities in other countries too, as well as options to spend from 3-12 months at an overseas university.

Year 3/4

In the third year you will conduct an interdisciplinary research project, enabling development of independence within a research environment. This will allow you to consolidate your studies and apply fundamental principles to a specific research problem.

Year 4/5 (MSci)

Your final year enables you to specialise in a discipline, carrying out a substantial interdisciplinary research project worth 60 credits and undertaking optional modules worth a further 60 credits.

For further detail regarding modules, visit the online prospectus.

Professional recognition

The Natural Sciences BSc and MSci degree courses are accredited by the Society for Natural Sciences (SNS) – a professional body for scientists, educators and students working across the discipline boundaries of science.

The programmes have achieved the standards set out in the Society's accreditation framework and are recognised by SNS as "offering outstanding quality interdisciplinary science education, providing students with excellent learning opportunities and skills development to prepare them for future careers in research, education, business or industry".

Loughborough University is among the first group of institutions whose degree programmes have been accredited by the SNS.

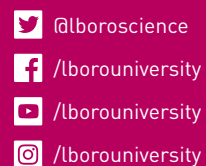
TOP IN EVERY UK
10 UNIVERSITY
LEAGUE TABLE

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This brochure was written several months in advance of the academic year to which it applies (2023). Every effort has been made to ensure that the information contained within is accurate at the time of publishing, but updates (for example to course content) are likely to occur due to the time between publication and the course start date. It is therefore important to visit our online prospectus at www.lboro.ac.uk/study before applying to check for any updates, as this will be the most up-to-date repository of information.

