

Chemistry

 NSS 2017
5TH IN THE UK FOR OVERALL SATISFACTION IN CHEMISTRY

 GUARDIAN UNIVERSITY GUIDE 2018
5TH IN THE UK FOR CHEMISTRY

 A GREAT PLACE TO STUDY
ONGOING INVESTMENT IN STATE-OF-THE-ART FACILITIES





Contents

Chemistry at Loughborough	01
Your Chemistry department	02
Women in Chemistry	03
Outstanding facilities	04
Our courses	06
Placements and careers	10
The Loughborough Experience	12

Why choose Chemistry?

Chemistry powers many aspects of our lives, from the clean water we drink to the air we breathe, from the clothes we wear to the fuel we put in our cars. It is the 'central science' that connects the other sciences, such as biology, physics, geology and environmental science, to each other. It is a vibrant and fascinating subject that has a huge impact on the world around us.

At Loughborough University you will study the principles and applications of modern chemistry that underpin many important UK industries with an emphasis on hands-on laboratory

work. Our Department of Chemistry provides you with a stimulating and supportive learning environment and the opportunity to develop a wide range of transferable skills.

You will be taught by academic staff who are often active in high profile and important research projects that have a real world impact in areas such as energy and the environment, defence and security, and health and medicine.

You will also become part of a Top 5 UK Chemistry department with excellent industry connections and a strong track record in student satisfaction and graduate employability.



THE 2016 TIMES
HIGHER EDUCATION
(THE) STUDENT
EXPERIENCE SURVEY
1ST PLACE



GUARDIAN UNIVERSITY
GUIDE 2018
UNIVERSITY
RANKED 6TH



THE COMPLETE
UNIVERSITY GUIDE 2018
UNIVERSITY
RANKED 10TH



Your Chemistry department

With an international reputation for research excellence, and a track record in high quality training for chemistry students, Loughborough's Department of Chemistry strives to provide a stimulating and supportive academic community. The Department boasts strong industry links and ongoing development in facilities.

Our academic and research staff are nationally and internationally recognised as experts in their chosen fields, but are also noted for the excellent pastoral care they provide to students through our personal tutoring system.

Students of the Department of Chemistry will benefit from the University's recent £17 million investment in brand new STEMLab facilities, as well as an additional projected £6 million investment in lab space in the refurbished Sir David Davies building.

The Department is well equipped for the study of analytical, organic, inorganic and physical chemistry. We also have specialist teaching and research labs for polymer chemistry, analytical chemistry, microbiology and molecular pharmacology.

We have a range of specialist equipment, including:

- 400 MHz, 500 MHz and solid-state NMR spectrometers;
- single crystal and powder X-ray diffractometers;
- high-resolution inductively-coupled plasma mass spectrometer;
- sector field organic MS, GC-MS and linear ion trap LC-mass spectrometers;
- ion mobility spectrometers;
- gas and liquid chromatographs.

As a Loughborough student you will also benefit from wide-ranging high quality facilities and resources on campus, including round-the-clock access to computer labs and extensive library resources.

As a Loughborough University Chemistry student, you will have access to our peer mentoring scheme. They are there to provide encouragement, advice and signpost you to relevant staff and services, your peer mentor will support your transition into university life.



Women in Chemistry

Loughborough University holds the Athena SWAN Bronze award, recognising its commitment to improving the representation and career progression of women in STEM (science, technology, engineering and mathematics) subjects.

The Department of Chemistry is committed to creating a diverse and inclusive culture in which students are able to thrive, regardless of their gender. As Loughborough University Chemistry student you will be invited to attend the Claudia Parsons lecture - our annual celebration of women in STEM. You will benefit from the support of our peer mentoring scheme and have the opportunity to attend Women in Chemistry events all over the country.

You will also be encouraged to take part in outreach activities and work as an ambassador at open days (for example, at our Women in Science drop-in sessions), inspiring prospective students just like you.



Outstanding facilities

Your Loughborough University experience will be enhanced by the University's exciting new STEMLab development. These outstanding new facilities allow us to offer new ways to learn and collaborate and will bring state-of-the-art learning facilities for our science and engineering students, including new resources for chemistry students.

Opening in 2017, STEMLab is the cornerstone of a £25 million 'Student Learning Zone' that will transform the University's West Park.

You will be among the first students to benefit from this investment which will bring two large modern, highly-serviced laboratories for teaching physical, inorganic and organic chemistry.

Within the Chemistry Laboratory there will be seven fume cupboards and laboratory benches to facilitate a range of different experiments.

For more information and a virtual tour, visit:
www.lboro.ac.uk/stemlab



GREAT FACILITIES AND ONGOING INVESTMENT INCLUDING BRAND NEW STEMLAB FACILITIES IN 2017



ACCREDITED BY THE ROYAL SOCIETY OF CHEMISTRY





Our courses

Loughborough University's Department of Chemistry has an outstanding scientific reputation with internationally renowned staff. Our strong commercial links are reflected in our courses, which are carefully tailored to provide you with the sound chemical education necessary to meet the needs of industry and support your individual interests and career ambitions.

The courses we offer are:

- Chemistry
- Medicinal and Pharmaceutical Chemistry
- Chemistry with a Foundation Year

All our courses are accredited by the Royal Society of Chemistry.

BSc or MChem?

Our 3 year (or 4 year sandwich) BSc equips you for employment in chemistry, scientific and other sectors, while our Master of Chemistry (MChem) courses (4 year or 5 year sandwich) will prepare you for research work in industry or a PhD research course. Graduates from our MChem courses are eligible for admission to Associate Membership of the Royal Society of Chemistry (AMRSC), and will hold a degree accredited for the award of Chartered Chemistry (CChem).



"The thing I enjoy most about the course is definitely the time spent in the lab. I enjoy getting to be hands on, instead of purely going to lectures, so the chance to be doing experiments is brilliant."

Robert Lee
MChem Chemistry

Chemistry

MChem (Hons) 4 years full-time sandwich

UCAS code: F102

MChem (Hons) DIS/DPS/DIntS* 5 years full-time sandwich

UCAS code: F103

BSc (Hons) 3 years full-time

UCAS code: F100

BSc (Hons) DIS/DPS/DIntS* 4 years full-time sandwich

UCAS code: F101

Typical offers

A level: ABB to include Chemistry and preferably one other science or Mathematics.

IB: 34-32 points including 6 at HL in Chemistry and 5 at HL in one other science.

BTEC Level 3 National Extended Diploma: DDM profile.

GCSE: GCSE Mathematics grade C.



*DIS/DPS/DIntS: Diploma in Professional Studies/
Diploma in International Studies.

This pure chemistry course opens up the fascinating world of chemistry, providing you with plenty of hands-on practical lab experience and flexible module choice.

In Years 1 and 2 the main core areas of inorganic, organic and physical chemistry form the backbone of the course, with additional modules in spectroscopy, analytical chemistry, biological chemistry, mathematics and polymer chemistry.

After Year 2, the development of core chemistry continues along with optional topics which include drugs and disease.

In Year 4 (MChem) you will also undertake an individual research project in a subject area of your choice.

Graduate destinations

Graduates from this course have gone onto further study and research for example at Cambridge, Nottingham, Oxford, as well as finding employment at Lilly Industries, AstraZeneca Pharmaceuticals, 3M Healthcare, GSK, Johnson Matthey and British Steel.

For more information and modules, visit:
www.lboro.ac.uk/undergraduate



"I chose Loughborough initially because of sporting reputation, but after visiting the campus I found that the University has excellent science and engineering departments. What most appealed was having the opportunity to study, work in the lab, socialise and play sport all in one place – to equally high standards!"

Anita Cooper
BSc Chemistry

Medicinal and Pharmaceutical Chemistry

MChem (Hons) 4 years full-time
UCAS code: F128

MChem (Hons) DIS/DPS/DIntS* 5 years full-time sandwich
UCAS code: F129

BSc (Hons) 3 years full-time
UCAS code: F151

BSc (Hons) DIS/DPS/DIntS* 4 years full-time sandwich
UCAS code: F127

Typical offers

A level: ABB to include Chemistry and preferably one other science or Mathematics.

IB: 34-32 points including 6 at HL in Chemistry and 5 at HL in one other science.

BTEC Level 3 National Extended Diploma: DDM profile.

GCSE: GCSE Mathematics grade C.



***DIS/DPS/DIntS:** Diploma in Professional Studies/
Diploma in International Studies.

The search for new drugs to combat serious ailments such as cancer, heart disease and AIDS remains an exciting challenge at the forefront of medical research.

As such, the pharmaceutical industry has a need for highly skilled graduates with a strong background in organic chemistry, coupled with a broad understanding of pharmacology and related biochemical areas.

Year 1 will provide a solid grounding in the core areas of chemistry, including subjects allied to the medical and pharmaceutical industries. Greater specialisation (including a research project) follows in the subsequent years.

Graduate destinations

Recent graduates have gone on to become: Medicinal Chemists (Novel Drug Synthesis), Product and Process Development Chemists, Bioanalysts, Forensic Scientists, Formulation Scientists, Clinical Research Associates, Product Registration Officers, Pharmacologists and Microbiologists, Drug Marketing and Sales.

For more information and modules, visit:
www.lboro.ac.uk/undergraduate

"When I first arrived at Loughborough as a student, I was very shy and doubted my own abilities – I didn't feel 'smart enough' or that I deserved to be here, which seems an odd thing to say, but it was how I felt. My personal tutor really helped build up my confidence and self-belief and I'm a very different person now to who I was then. I'm confident and self-assured and actively seek out new opportunities and challenges."

Gracie Curtis-Holsgrove
MSci Chemistry



Read Grace's story in full at
www.lboro.ac.uk/departments/chemistry/undergraduate/meet-our-graduates/

Chemistry with a Foundation Year

Chemistry with a Foundation Year
UCAS code: F104

Chemistry with a Foundation Year is for candidates who for some reason have not had the opportunity to study the pre-requisite subjects needed for first year entry.

Offers will not normally be made to those who apply simply because their A level grades/predictions are below the requirements for direct entry.

Successful completion of the one year Foundation course allows you to progress onto any of the courses in our Department.

For further details and entry requirements, please visit:
www.lboro.ac.uk/foundation



"One of the great things about studying Chemistry at Loughborough is the amount of time we spend doing chemistry. Most of the modules in the first two years involve going into the laboratory and getting hands-on experience of doing the chemistry that you have learned about in lectures."

Paul Brack
MChem Chemistry



Placements and careers

—
“Loughborough has a range of placements on offer, a factor that attracted me. I particularly enjoyed my year in industry. My placement in the toxicology department at King’s College Hospital was well worth extending my degree by a year.”
 —

Lucy Rogers
 MChem Chemistry

Our strong commercial links are reflected in courses that are carefully tailored to provide you with the sound chemical education necessary to meet the needs of industry and reflect your own interests and career aspirations.

Lecturers from industry contribute to the teaching of both undergraduate and postgraduate programmes, and sponsor research projects, greatly enhancing the student experience. Employers recognise the high calibre of Loughborough students and continue to recruit them, with the University listed as the 14th most targeted university by recruiters in 2014’s Graduate Market Review.

Outstanding placement opportunities

The graduate job market is highly competitive, so having first-hand practical work experience can help you stand out from the crowd. This is why we offer students on our undergraduate degrees in chemistry the opportunity to take advantage of our Industrial Placement scheme.

A year in industry – applying knowledge to real problems, learning through practical experience and gaining an insight into the role of a chemist, is exceptionally valuable.

Examples of recent placement destinations include:

- AstraZeneca
- BioFocus
- GlaxoSmithKline
- 3M Healthcare
- Pfizer UK
- King’s College Hospital

Summer studentships

The department also offers a number of summer studentships, a great chance to gain experience by working within our leading research groups.

Graduation destinations

Graduates of the Department of Chemistry have gone on to pursue a diverse array of exciting and rewarding careers with a wide range of employers, including:

- Laboratory Analyst – GlaxoSmithKline
- Quality Control Analytical Chemist – 3M
- Retail Specialist – Fujitsu UK
- Fuels Chemist – Lubrizol
- Materials Technologist – Pirelli
- Research Scientist – Unilever
- Graduate Auditor – PricewaterhouseCoopers

Graduates have also taken up careers in teaching, accountancy, medicine and health.



DLHE 2015
 93% IN GRADUATE-LEVEL
 EMPLOYMENT OF GRADUATES
 IN FULL-TIME EMPLOYMENT



PAID PLACEMENTS
 AVAILABLE ON ALL
 COURSES





The Loughborough Experience

Loughborough University is renowned for offering a life-changing student experience, recently ranking first in the Times Higher Education Student Experience Survey 2016. We asked Chemistry graduate Marilyn Williams to sum up her own "Loughborough Experience".

"Chemistry was my chosen degree as I enjoyed learning the subject during A level and I wanted to evolve my knowledge in the subject. One of my chemistry teachers in college told me that he obtained his degree in Loughborough; he told me many great stories about the University and what it had to offer, so Loughborough looked promising. My sister had also previously studied here and had good things to say about the University. When I came for the open day, everyone was very pleasant and the course structure seemed interesting; but honestly, overall I wanted an adventure away from London.

I have loved the social atmosphere here at Loughborough, it is honestly the best. There is always something to experience and/or be a part of. I was a member of the athletics club, my sport was shot putt and I had two of the best coaches ever.

What I enjoy most is that the course is never boring. I would have to say organic chemistry is a personal favourite of mine. The lecturers make the topic interesting and they are well executed.

The best part about being a student here is meeting and interacting with people from different walks of life. I truly embraced the lifestyle and I have made lifelong friends, it's been amazing!"

An outstanding campus

The University is based on a superb 440 acre campus – the largest single-site green campus in the UK. Boasting pleasant open spaces, gardens and sports areas, our campus is equipped for every aspect of student life, with high quality accommodation, shops, health services, student support centres and our award-winning Students' Union. You will join a vibrant campus community of over 20,000 students and staff from over 100 countries.

A unique sporting experience

As a Loughborough student you can take advantage of the two state-of-the-art gyms on campus, represent your Hall of Residence in over 30 sports, join any of our sporting societies or simply enjoy recreational sport and leisure activities. Our dazzling array of sports facilities include a 50m swimming pool, five recreational parks, seven fitness studios and five full-sized floodlit synthetic pitches for ball sports.

Find out more: loughboroughsport.com

More than sport

In your spare time, there is something for everyone. You can join in with our Rag charity fundraising, community Action volunteering, the Media Centre, music and arts activities, and over 100 different clubs and societies.

For more information go to:

www.lboro.ac.uk/about/students-union/

Loughborough life

A busy market town in the East Midlands, Loughborough boasts great travel links and is situated between the three nearby cities of Leicester, Nottingham and Derby. The town has a variety of entertainment on offer, including theatre, comedy, cinema and restaurants serving up global cuisine, alongside pubs, delis, bars and coffee shops.

For more information go to: loveloughborough.co.uk

"The best thing about being a student at Loughborough University was the friends and connections I have made. The facilities for both social and sporting activities are also amazing, giving the chance for everyone to get involved. Living in halls of residence in my first year was an amazing experience!"

Sunil Rajput
MChem Chemistry


LARGEST SINGLE-SITE
GREEN CAMPUS IN
THE UK


NSS 2017
RANKED TOP MAINSTREAM
UNIVERSITY IN ENGLAND


WHATUNI STUDENT
CHOICE AWARDS 2015
VOTED BEST
ACCOMMODATION



TIMES HIGHER
EDUCATION STUDENT
EXPERIENCE SURVEY
BRITAIN'S BEST
STUDENT EXPERIENCE
OVER THE LAST
10 YEARS 2007-2017



General enquiries

Department of Chemistry
Loughborough University
Leicestershire LE11 3TU UK

T: +44 (0)1509 222681
E: chemistry@lboro.ac.uk



@LboroScience

/lborouniversity

/lborouniversity

/lborouniversity