MANCHESTER 1824

The University of Manchester

# CHEMISTRY

**POSTGRADUATE COURSES**

## SHAPE YOUR FUTURE

Learn today, lead tomorrow

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# SHAPE YOUR FUTURE: CAREERS

Our Department is ranked seventh in the UK for the quality of our research and third for research power.
Overall research quality in REF 2021


Ranked top ten globally for action towards the UN Sustainable Development Goals.
THE University Impact Rankings 2022

28th best university in the world, 9th in Europe and 6th in the UK.
QS World Rankings 2023

Manchester has been voted the top city to live in the UK, and the third best in the world.
The Economist's Global Liveability Index 2022 and Time Out Magazine survey (2021) respectively

Read more about our rankings and reputation including REF results.

## CAREER CATEGORIES

Master's courses at The University of Manchester are designed to build the specialist knowledge and skills you need to enhance your employability and tackle the challenges facing our world today.

Our degrees are delivered with sustainability at their core, to give you the best grounding for the careers of the future. There are common themes and ideas that underpin our master's, which we have illustrated throughout this brochure. Look out for the following across our courses:

**A ENERGY CAREERS:** our master's courses equip you with first-class analytical skills that prepare you for careers in a world that is working through the energy transition.
**B BUILDING SUSTAINABLE FUTURES CAREERS:** securing existing infrastructures and planning for future sustainable developments are key aspects of our postgraduate courses.
**C LEADING CHANGE CAREERS:** a changing world requires new leadership, and our master's courses develop you as decision-makers and forward-thinkers.
**D INNOVATING TECHNOLOGY CAREERS:** as global priorities evolve, so do technological solutions. Our master's degrees train you in the most current technology and encourage innovations for our future.
**E RESEARCH FOR NEW HORIZONS:** our master's courses can lead you to further study with postgraduate research programmes (PhDs) where you will investigate solutions and methods for future science and engineering practitioners.

## CAREERS SERVICE

As a postgraduate student you may already have a career path in mind, but we'll do all we can to help you get there. We'll give you the opportunities to develop your skills and networks, and support tailored to your needs.

Our first-class Careers Service offers support and advice throughout your time at The University of Manchester, to help you make the most of your time here and best prepare you for your future. From CV and application advice to employer workshops and our job platform Career Connect, the Careers Service for students and graduates can help to put you in the best position to secure employment and act as a launchpad for your long-term career aspirations.

# SUSTAINABILITY

## LEADING THE WORLD ON SUSTAINABLE DEVELOPMENT

The quality and scale of our research, when compared against the UN's Sustainable Development Goals (SDGs), has been ranked in the top ten globally by the Times Higher Education University Impact Rankings in 2022.

The 17 SDGs are the world's call to action on the most pressing challenges and opportunities facing humanity and the natural world, and we are playing a leading role in tackling them.

As one of the world's leading research institutions, as well as being the only university in the UK to have social responsibility as a core goal, The University of Manchester is proactively tackling the SDGs in four ways – through our research, learning and students, public engagement activities and responsible campus operations.

Our 2021/22 SDG report outlines how we are tackling the SDGs.


## OUR MASTER'S COURSES CONNECT WITH THE FOLLOWING UNITED NATIONS SUSTAINABILITY DEVELOPMENT GOALS:

- Goal 7: Affordable and clean energy
- Goal 11 Sustainable cities and communities
- Goal 12: Responsible consumption and production
- Goal 15: Life on land

# FACILITIES AND RESOURCES

## DEPARTMENT OF CHEMISTRY

The Department of Chemistry houses a range of outstanding facilities, including high-resolution nuclear magnetic resonance spectrometers and several powder systems for X-ray crystallography, which are pivotal in enabling all aspects of research across the department.

The Department of Chemistry is based in The University's Chemistry Building, located at the junction of Brunswick Street and Upper Brook Street and sits on the east side of the Oxford Road campus.

Discover more about our facilities or even take a virtual tour of the Department

# MSC CHEMISTRY

Read more about this course

**Also see MSc Analytical Chemistry and Measurement Science (distance learning course)**

Chemistry underpins every aspect of our modern lives, from the medicines, materials and fuels we use daily, all the way through to the agrochemicals that provide us with the food that sustains our society.

This 12-month MSc is designed to allow students to gain broad grounding in all these applications across organic, inorganic and analytical chemistry, whether as a preparation for PhD studies or for students wishing to broaden their research experience and knowledge of chemistry.

The course consists of taught modules, worth a total of 90 credits, delivered in the first six months of the course followed by a substantial research project, also worth 90 credits.

## THIS COURSE COULD LEAD YOU TO A CAREER IN ONE OF THE FOLLOWING CATEGORIES:

**E RESEARCH FOR NEW HORIZONS**

## WHERE DO OUR GRADUATES WORK?

- Unilever Research
- GlaxoSmithKline
- AstroZeneca
- University of Oxford
- ICI Pharmaceuticals

## WHAT DO OUR GRADUATES DO?

- Research Scientist
- Lecturer
- Director
- Researcher
- Chemist

## COURSES IN RELATED SUBJECT AREAS:

MSc Nanomaterials; MSc Polymer Materials Science and Engineering
MSc by Research in Chemistry

## UNITED NATIONS SUSTAINABILITY DEVELOPMENT GOALS:

The quality and scale of our impact against the UN's Sustainable Development Goals (SDGs) has been ranked top ten in the world in the Times Higher Education University Impact Rankings in 2022.

## ENTRY REQUIREMENTS AND PREREQUISITES:

We require a UK bachelor's degree with a second class (2.2) classification (or the international equivalent) in Chemistry. Candidates should demonstrate a background in organic, inorganic, physical and analytical/laboratory chemistry.

IELTS: at least 6.5 overall with no sub-test below 6.0.

# MSC POLYMER MATERIALS SCIENCE & ENGINEERING

Read more about this course

**This course is jointly developed with the Department of Materials**

Gain a rich understanding of the chemistry, properties, processing, characterisation and application of polymers with this multidisciplinary course. A wide range of polymers are considered, including commodity, speciality and those with applications in biomedicine, composites, nanotechnology and electronics. Be at the cutting-edge of polymer research, including the latest materials and techniques, with the opportunity to conduct research in world-leading research groups and facilities.

The complete MSc is made up of taught course units and a research dissertation. The taught course units are delivered through a combination of lectures and practical laboratory work.

## THIS COURSE COULD LEAD YOU TO A CAREER IN ONE OF THE FOLLOWING CATEGORIES:

**B BUILDING SUSTAINABLE FUTURES CAREERS**
**D INNOVATING TECHNOLOGY CAREERS**
**E RESEARCH FOR NEW HORIZONS**

## WHERE DO OUR GRADUATES WORK?

- Printpak
- Airbus D&S
- Nestlé
- Applied Graphene Materials
- ABInBev Nigeria

## WHAT DO OUR GRADUATES DO?

- Process Engineer
- Sales Engineer
- Technical engineer
- Quantitative Analyst
- Polymer Researcher

## UNITED NATIONS SUSTAINABILITY DEVELOPMENT GOALS:

The quality and scale of our impact against the UN's Sustainable Development Goals (SDGs) has been ranked top ten in the world in the Times Higher Education University Impact Rankings in 2022.

## COURSES IN RELATED SUBJECT AREAS:

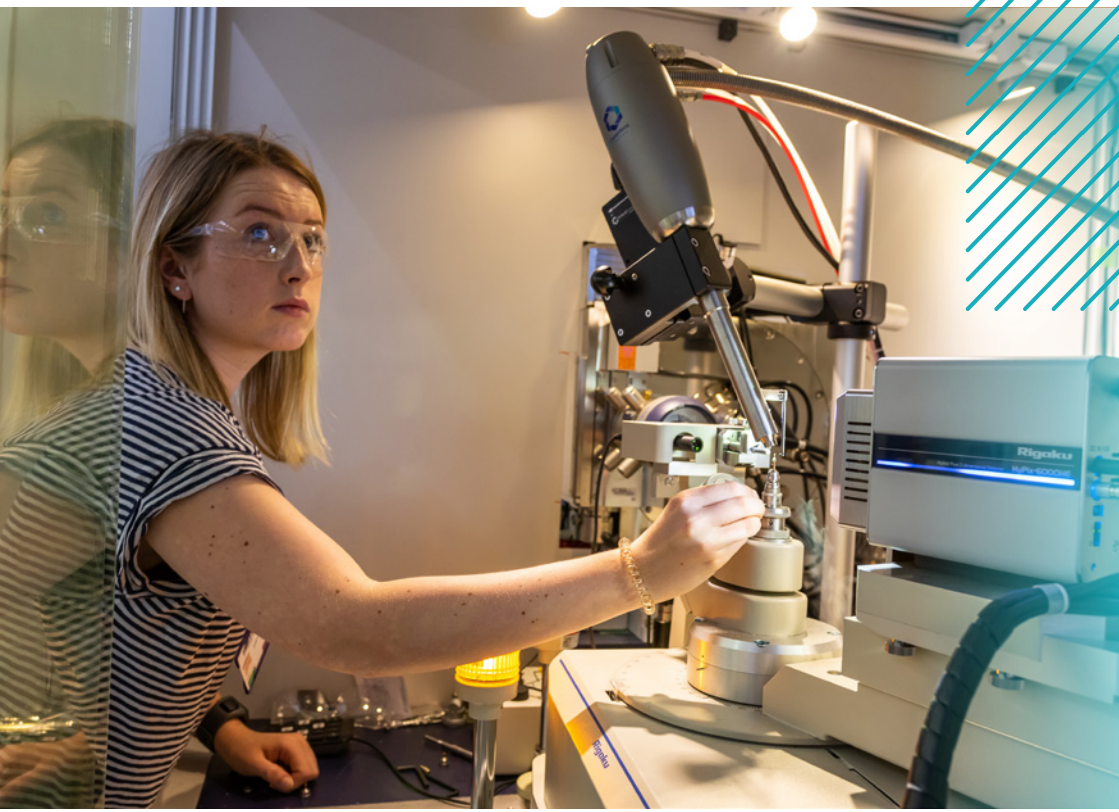
MSc Chemistry; MSc Advanced Chemical Engineering; MSc by Research Physics; MSc Advanced Engineering Materials; MSc Biomaterials; MSc Advanced Manufacturing Technology & Systems Management

## ENTRY REQUIREMENTS AND PREREQUISITES:

You will need a UK 2.2 Honours degree or overseas equivalent in the following backgrounds: Materials Science, Chemistry, Chemical Engineering, Physical Chemistry, Polymer Engineering, Composite Materials and Engineering, Biofunctional Materials, Metallurgy, and Macromolecular Materials and Engineering. We can consider Biomaterials, Material Physics and other backgrounds on a case-by-case basis.

IELTS: at least 6.5 overall with no sub-test below 6.0

**This course is accredited by the Institute of Materials, Minerals and Mining (IOM3), leading to Chartered Engineer (CEng) status.**



# PRACTICALITIES

## PRACTICALITIES - FEES, FUNDING, AND SCHOLARSHIPS

Your master's fees will cover the cost of your study at the University as well as charges for registration, tuition, supervision, examinations, and graduation. Tuition fees also entitle you to membership of our libraries, the Students' Union, and the Athletic Union.

If you require funding for your master's course, it is advised that you begin looking as soon as possible. A range of funding options may be available to you, which will differ depending on whether you are a student from the UK or an international student (including the EU).

Check the tuition fees for your chosen course, your fee status, and funding opportunities by visiting our master's fees and funding webpage.

## ACCOMMODATION

For most of you, Manchester won't just be your next stage of education; it'll be your new home for a year or more. From the moment you arrive, you'll be able to access support to help you make the most of your time in university accommodation. You'll find a range of accommodation options for postgraduate students, from contemporary and traditional halls of residence to a specialist advice service for those interested in private letting.

An offer of residence in university accommodation is guaranteed to all overseas postgraduate students for the duration of their studies, provided they meet conditions related to offer holder status and study mode. If your application falls outside the conditions of the guarantee, you are still welcome to apply for university accommodation.

Find out more on the accommodation website or explore our interactive map.

This brochure was created in 2022/2023. It has therefore been created in advance of course starting dates and for this reason, course information may be amended prior to you applying for a place. There are a number of reasons why changes to course information and/or published term dates may need to be made prior to you applying for a place – more details can be found on our website. Prospective students are therefore reminded that they are responsible for ensuring, prior to applying to study, that they review up-to-date course information by searching for the relevant course at: manchester.ac.uk/study/masters/courses/

Further information describing the teaching, examination, assessment, and other educational services offered by The University of Manchester is available at: manchester.ac.uk/study/masters/

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