School of Mechanical, Aerospace and Civil Engineering

Postgraduate studies

Study with us

www.manchester.ac.uk/mace
Technical MSc courses

The School of Mechanical, Aerospace and Civil Engineering offers a suite of specialist, industry-relevant technical MSc courses. This is an exciting opportunity to work in a diverse and stimulating environment with world-leading academic staff and to develop your own critical and practical thinking.

Our MSc courses are full-time and are taught over 12 months. They combine a mixture of core taught units, optional units and a 60 credit research dissertation. All our MSc courses are accredited by the relevant professional bodies, meaning that the MSc qualification contributes towards the academic requirements for applying for Chartered Engineer status.

Advanced Manufacturing Technology and Systems Management
This MSc course provides students with the understanding of a range of traditional and evolving manufacturing-related subjects.

- This course gives students the theoretical and practical experience to solve current and future manufacturing engineering problems.
- It comprises key units in manufacturing technology and manufacturing management, which are complemented by a range of optional units.
- Our strong links with industry allow us to incorporate industry-relevant material into this course right from the start, which is highly desired by employers.

Aerospace Engineering
Our Aerospace Engineering MSc produces high quality graduates with specialist training in aerospace engineering to prepare them for employment in engineering industries and related consultancies.

- We have a long tradition in Aerospace Design, Turbulence Modelling, Helicopters, Heat Transfer, Flow Diagnostics, Aerodynamics and Computational Fluid Dynamics.
- The course has links with many companies such as BAE Systems, Airbus and Rolls-Royce.
- The course allows students to immediately apply the theory and methodologies learned in lectures to the practical design of aerospace vehicles.

Mechanical Engineering Design
This MSc provides a state-of-the-art introduction to technical design within mechanical engineering.

- Our course integrates advanced engineering techniques with hands-on-learning to provide a complementary blend of skills desired by employers.
- We have high calibre facilities and strong links with industry.
- We provide a modern world-class education to prepare graduates for work in relevant industries.
- This course offers key modules in analytical and conceptual design and a range of optional units enabling students to tailor the course to meet their specific needs or interests.

Structural Engineering
This MSc course provides an excellent balance of theoretical and practical training in Structural Engineering.

- Our students gain the skills and knowledge of Structural Engineering that are highly desired by employers.
- The course provides opportunities to undertake practical experimental work supported by relevant research methods.
- Internationally-leading researchers and engineers teach on this course on the behaviour and design of structures against extreme loading, such as fire and earthquakes.

Thermal Power and Fluid Engineering
The aim of this MSc course is to train and educate thermofluid engineers to enable them to meet present and future demands of the industry.

- The course equips graduates with the necessary skills to engage in employment or further research.
- This course provides our graduates with an advanced understanding of heat and fluid flow processes and their role in modern methods of power generation as well as the numerical and experimental techniques involved.
- This MSc has a range of exciting units such as Advanced Fluid Mechanics, Computational Fluid Dynamics, Heat Transfer, Engineering Thermodynamics and Advanced Power.

Employability
Studying with us is an investment in your future – our graduates are targeted by employers from across the globe. We offer an unrivalled opportunity to progress within your chosen discipline and become well equipped for a career in engineering and related fields.

The School has strong industrial links with a range of companies and many of our graduates go on to work for them. Recent graduates have gained employment at companies such as:

- BAE Systems
- ExxonMobil, UK
- Saudi Aramco, KSA
- GE Aviation
- Jaguar Land Rover, UK
- Shell Petroleum Development
- Airbus UK
- Siemens
- BP
- Électricité de France, UK
- Rolls Royce.

About the school
We are a large, diverse and multi-disciplinary School and we welcome students and staff from all over the world to come to work and study here. We rank 4th in the UK in Engineering and Technology (Times Higher Education World University Rankings 2015). We have over 500 postgraduate students who benefit from our excellent teaching and outstanding laboratory and experimental facilities.

We are tackling challenging problems and supporting governments, business and communities to bring about real change and improvements. The work and research that we undertake has real-world impact.

What our students say
My degree at Manchester gave me the theoretical and practical engineering knowledge which forms the basic foundation of what I do in my current job. I apply the skills I learned from my degree every day.

I was able to work under academic mentors who are leaders in their respective field.

As a student at The University of Manchester, I gained much more than a degree here.

How to apply
Further details about all our courses, including entry requirements, tuition fees, course content and how to apply, can be found on our website: www.mace.manchester.ac.uk/postgraduate-taught

If you have any questions about our courses or about applying online, please do not hesitate to get in touch!

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