



Pre-master's in Engineering

Pre-Masters

The engineering profession spans several industrial sectors across the globe including aerospace, automotive, defence, energy and manufacturing. Skilled engineers continue to be in demand with diverse career opportunities in research and development, design, management or operations. With a global reputation for many of our MSc degree programmes, this course is an ideal stepping-stone to an exciting career in engineering. A Cranfield degree will fast-track your career, enabling you to go further, more quickly. Our graduates are sought after by top employers from around the world, in industry and commerce, government organisations and academia. As an exclusively postgraduate University, we offer you a professional and mature study environment working with like-minded, talented people who are focused on advancing their careers. Whilst it is possible to apply for direct entry onto the Pre-master's in Engineering, traditionally you are required to apply for and be accepted onto the follow-on MSc course of your choice. Our website contains the full list of eligible masters courses.

Course structure

The Pre-master's in Engineering is an intensive, full-time course delivered through a mixture of lectures, practical laboratory sessions and design exercises. The taught component accounts for 70% of the total credits required.

Individual project

The individual project is comprised of design exercises or a research project related to the chosen MSc course. It aims to enhance research methodology as well as develop engineering knowledge in your chosen field.

Future career

Engineers work in a dynamic environment where new technologies, methodologies and processes are being developed. The Pre-master's in Engineering course covers many aspects of general engineering fields including aerospace, automotive and offshore. After successfully completing this course, you will meet the entry requirements for a number of postgraduate courses offered by our School of Aerospace, Transport and Manufacturing, and School of Water, Energy and Environment.

Example modules

The modules cover many aspects of general engineering applications.

Compulsory:

- Mechanical Design,
- Propulsion and Power,
- Aeronautical Engineering,
- Basic Aerodynamics,
- Engineering Stress Analysis,
- An Introduction to Engineering Materials and Failure Analysis,
- Mathematics I and II,
- Computing Aided Design (CATIA),
- Computing Course,
- Thermofluids,
- Academic English Language,
- Research Methods.

Duration:

Pre-master's: Full-time - 10 months.

Start date:

October.

Location:

Cranfield Campus.

Entry requirements:

Typical prerequisites include an ordinary degree or HND (with three years relevant experience) in engineering and physical science disciplines. Previous experience, aptitude and level of academic achievement will be assessed.

Please see the course website for essential mathematics requirements which are compulsory.

Applicants who do not fulfil the standard entry requirements can apply for the Pre-master's in Engineering programme, successful completion of which will qualify them for entry to this course for a second year of study.

ATAS Certificate

Students requiring a visa to study in the UK may need to apply for an ATAS certificate to study this course.

Contact details

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For further information please visit

www.cranfield.ac.uk/courses/taught/pre-masters-in-engineering