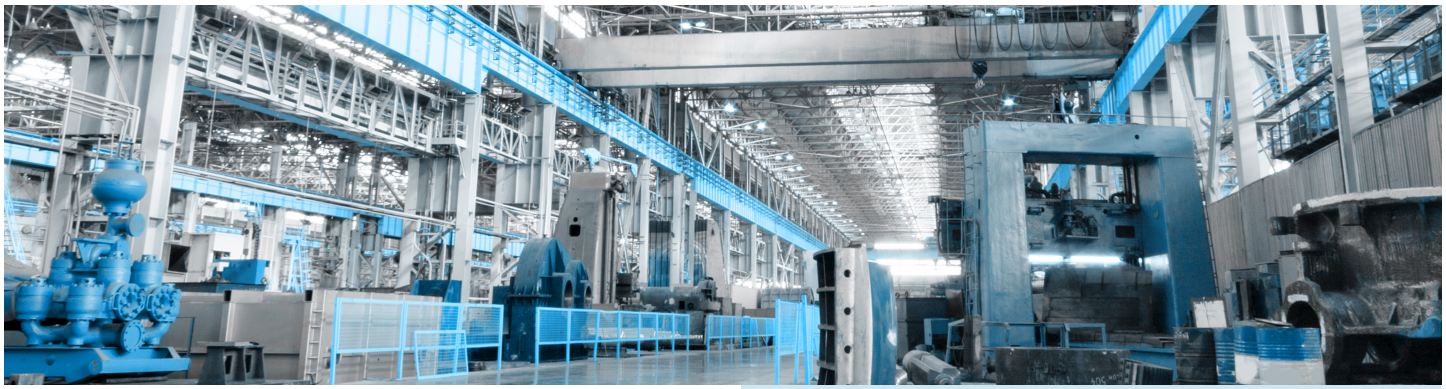
Engineering and Management of Manufacturing Systems MSc

www.cranfield.ac.uk/emms



Accelerate your career in engineering with a master's that will prepare you to take on management positions across a range of manufacturing and service industries. Make an impact by optimising supply chains, enhancing manufacturing performance, streamlining process flows and applying a well-rounded combination of industrial engineering and management skills.

The Engineering and Management of Manufacturing Systems MSc is an established course that develops professionals with a thorough understanding of the knowledge, skills and behaviours needed to design and manage competitive manufacturing and service operations. It majors on industrially-relevant projects, team working and transferable skills that will enhance your career performance, whether you choose to go into manufacturing, service or consultancy sectors.

Who is it for?

This course is suitable for graduates with engineering, management, IT or related degrees keen to develop their careers in manufacturing or related industries, including academia. We also welcome graduates currently working in industry who are keen to extend their qualifications or pursue a career change, as well as individuals with other qualifications who possess considerable relevant experience.

Your career

Cranfield manufacturing graduates are highly sought-after by industry. Many graduates take on appointments with a wide range of manufacturing enterprises or, increasingly, apply their skills to other sectors from from automotive to retail and from financial services through to health care.

Companies that have employed our students include:

- Amazon
- Procter & Gamble
- Inverto Consulting (a BCG company)
- Jaguar Land Rover
- Inverto Consulting
- Efficio Consulting
- Airbus (France)
- BVI Medical (Mexico)
- ECM Group (France)
- CERN (Switzerland)

Overview

Start date
Full-time: March or October. Part-time: throughout the year

Duration
One year full-time, two-five years part-time

Qualification
MSc, PgDip, PgCert

Study type
Full-time / Part-time

Structure
Taught modules 40%, group project 20% (dissertation for part-time students), individual research project 40%

Campus
Cranfield campus

Entry requirements
We welcome applications from talented individuals of all backgrounds and each application is considered on its individual merit. Usually applicants must hold:

A UK lower second-class (2:2) undergraduate degree with honours, as a minimum, or equivalent international qualification.

Ideally, applicants will have studied in a relevant science, engineering or related discipline.

Find information about equivalent qualifications in your country on our International entry requirements page.

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

Fees

Please see **www.cranfield.ac.uk/fees** for detailed information about fee status, full-time and part-time fees as well as deposit requirements and bursary and scholarship information.

Course details

The course comprises eight assessed modules, a group project and an individual research project. The modules include lectures and tutorials and are assessed through practical work, written examinations, case studies, essays, presentations and tests. These provide the 'tools' required for the group and individual projects.

Modules

Keeping our courses up-to-date and current requires constant innovation and change. The modules we offer reflect the needs of business and industry and the research interests of our staff. As a result, they may change or be withdrawn due to research developments, legislation changes or for a variety of other reasons. Changes may also be designed to improve the student learning experience or to respond to feedback from students, external examiners, accreditation bodies and industrial advisory panels.

To give you a taster, we have listed below the compulsory and elective (where applicable) modules which are currently affiliated with this course. All modules are indicative only, and may be subject to change for your year of entry

Compulsory modules

All the modules in the following list need to be taken as part of this course.

Operations Management

Managing Change in Manufacturing

Operations Analysis

Manufacturing Systems Engineering

Sustainability in Manufacturing Systems

Smart Manufacturing

Supply Chain Management

Manufacturing Strategy

"I was a perfectionist, always striving for excellence in my work. That's why I chose Cranfield University's MSc in Engineering and Management of Manufacturing Systems. The programme was exceptionally well-designed, covering all aspects of manufacturing management from an engineering perspective. The emphasis on case studies from the business world connected academic theory with real-world applications, making the learning experience truly immersive."

Karim Atteya
current student, Engineering and Management of Manufacturing Systems MSc, 2024

Accreditation

The Engineering and Management of Manufacturing Systems MSc is accredited by Institution of Mechanical Engineers (IMechE), the Royal Aeronautical Society (RAeS) and Institution of Engineering & Technology (IET) on behalf of the Engineering Council as meeting the requirements for further learning for registration as a Chartered Engineer (CEng).

Candidates must hold a CEng accredited BEng/BSc (Hons) undergraduate first degree to show that they have satisfied the educational base for CEng registration.

Please note accreditation applies to the MSc award, PgDip and PgCert (if offered) do not meet in full the further learning requirements for registration as a Chartered Engineer.

For more information contact our Admissions Team:
T: +44 (0)1234 758082

Visit campus for yourself and meet current students and our academics at our next Open Day:
www.cranfield.ac.uk/openday

February 2025