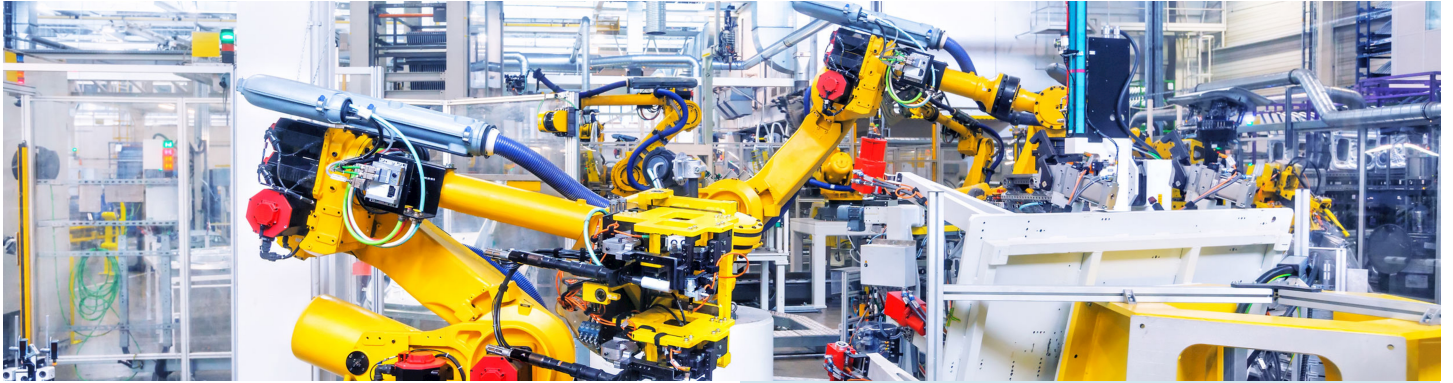




Manufacturing Technology and Management MSc

www.cranfield.ac.uk/mtm



The Manufacturing Technology and Management MSc equips you with the advanced skills required to lead the transformation towards Industry 5.0. Learn about materials sustainability, innovation and the product life cycle, enabling the drive of next-generation, eco-friendly solutions.

This programme offers specialised technical, engineering and business pathways, empowering you with problem-solving capabilities, commercial awareness, and leadership skills to excel in high-tech industries. Shape the future of manufacturing and make a lasting impact on the global economy.

Who is it for?

This course is designed for graduates and professionals seeking advanced skills in manufacturing technologies, process management and leadership. It is ideal for individuals aiming to contribute to Industry 5.0, drive innovation in materials sustainability and lead the development of next-generation products. Those with a background in engineering, science, or related disciplines will benefit from its focus on technical expertise and business acumen, preparing them for high-impact roles in high-tech industries.

Your career

The Manufacturing Technology and Management MSc will provide you with a competitive edge by equipping you with a highly sought-after combination of technical and management skills. The course enables you to take on leadership roles in a range of sectors that are required to drive forward the net zero agenda and contribute to more sustainable manufacturing processes.

Past students have gone on to work as:

- Commercialisation Manager
- Director - Digital Innovation
- Manufacturing Engineer
- Innovation Engineer
- Operations and Development Manager
- Production Engineer
- Technology Lead

Overview

Start date

Full-time: 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 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.

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 blends academic learning with hands-on industrial experience. It includes eight assessed modules— three core and five elective— covering cutting-edge manufacturing technologies and management practices. You'll engage in a group project that tackles real-world industrial challenges and an individual project tailored to your interests. This course provides the perfect balance of theoretical knowledge and practical application, ensuring you're equipped with the skills to lead in advanced manufacturing and innovation.

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.

Engineering Leadership and Management
Introduction to Sustainable Manufacturing
Lean Product Development

Elective modules

Select five from the list below

Additive and Subtractive Manufacturing Technologies
Composites Manufacturing for High Performance Structures
Finite Element Analysis for Additive Manufacturing
Introduction to Materials Engineering
Manufacturing
Metal Additive Manufacturing Processes
Modelling Engineering Materials
Operations Analysis
Operations Management
Surface Engineering and Coating Systems Design

"Cranfield's Manufacturing Technology and Management course offers several advantages that set it apart from other programmes. Designed in collaboration with leading manufacturers, the curriculum is closely aligned with current industry needs and challenges, ensuring that students are well-prepared for immediate contributions in the workforce."

Rodrigo Ruiz Diaz

Area Manager, Amazon, (Manufacturing Technology and Management MSc, 2023)

Accreditation

The Manufacturing Technology and Management MSc is accredited by the Institution of Mechanical Engineers (IMechE), Royal Aeronautical Society (RAeS), Institution of Engineering & Technology (IET) and Institute of Minerals & Mining (IOM3) 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

November 2024

Every effort is made to ensure that the information provided here is correct at the time it is published. Please check our website for the latest information.