



Operations Excellence

MSc

A world-leading programme developed by Cranfield through a unique partnership with Rolls-Royce and the Institute for Manufacturing at the University of Cambridge. Designed for industry professionals to fit around demanding careers, the course has been designed to develop the skills to lead change in business. This course addresses the need for highly trained operations professionals required to transform operations into a world-class business in all sectors of manufacturing. We have exceptional facilities many of which are unique in the university sector. Students on the Operations Excellence course benefit from this infrastructure which also supports our work with industrial partners. Students have access to computing facilities and laboratories suitable for general purpose and engineering applications. A vast range of specialist software applications are available including Witness, SAP and CAD IDEAS.

Course structure

Comprises of a two day induction, eight taught modules, a group project and an individual thesis project. The modules include lectures and tutorials, and are assessed through written examinations and assignments. These provide key information for subsequent project work. The Institute for Manufacturing (IfM) at University of Cambridge delivers one of the modules.

Individual project

The individual research project is sponsored by industry. This part of the course allows you to apply the skills acquired during the taught phase to be used to solve a real-life problem.

Group project

Projects are industrially supported and chosen to ensure delegates are able to relate the content directly to the performance of the business and its future success.

Future career

Individuals selected to participate in this programme will be able to deliver significant business benefits to their employer/sponsoring company immediately. In addition, the greater depth and breadth of skills gained will enable graduates to progress to more senior roles. Students who have excelled in the course have their performance recognised through course awards, sponsored by Rolls-Royce, Arthur Corfe and Professor John Kay. These are presented to the winners when they graduate.

Example modules

Modules form only part of the course, with the project(s) and theses making up the balance. Please see the course structure for details.

The list below shows the modules offered in the 2019-20 academic year, to give you an idea of course content. To keep our courses relevant and up-to-date, modules are subject to change – please see the webpage for the latest information.

Compulsory:

- Business and Manufacturing Strategy,
- Effective Factories,
- Innovation Management,
- Leading Change in Operations,
- Manufacturing in Practice (Study Tour),
- Operations Assessment and Improvement,
- Supply Chain Management,
- Team Management,
- Technology Management.

Duration:

MSc: Part-time - up to three years.

Start date:

Part-time: October.

Location:

Cranfield Campus/External.

Entry requirements:

A first or second class UK Honours degree in a relevant science, engineering or related discipline, or the international equivalent of these UK qualifications. Other relevant qualifications, together with significant experience, may be considered.

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.

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/opex