

Through-life System Sustainment MSc



Many of the premier UK industrial organisations are increasingly dependent upon Through-life Engineering Services (TES) to compete, gain market share and generate revenue and profit. There is a growing emphasis on providing the services that keep products operating effectively, rather than the design, manufacture and delivery of original equipment (hardware).

This course offers through-life thinking to enable change leaders in organisations to embrace new and integrated approaches to develop superior through-life support capabilities to meet shareholder and stakeholder demands.

The MSc will provide you an essential foundation to become a future leader in organisations that wish to optimise the value inuse and cost in-use for long-life engineering assets such as planes, trains, ships, vehicles, power-plants, machine tools and buildings.

Who is it for?

Developed by Cranfield University in conjunction with Rolls-Royce, this MSc has been designed for individuals at organisations where there is a growing emphasis on revenue being derived from providing the services that keep products operating effectively, rather than the design, manufacture and delivery of original equipment (hardware). The individual will be engaged in a discipline related to through-life management, support, asset management, and/or maintenance. The course is relevant to TES-dependent organisations, engineers, business administrators, logistics, finance and commercial practitioners.

Your career

Successful completion of this course takes you onto careers with higher levels of responsibility, a broader base of skills and capability and a greater level of professionalism.

Graduates of this course have taken on roles including:

- Deployed Lifecycle Engineer
- Through-Life Support Engineer
- Systems Engineering Consultant
- Project Management Operations Lead
- Operations and Maintenance Expert
- Maintenance Modernisation Manager
- Management Consultant
- Manufacturing Technology Solution Architect

Overview

Start date October

Duration Two-three years part-time

Qualification MSc

Study type Executive

Structure

Taught modules 40%, Group project (or dissertation) 20%, 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 engineering or technology-based discipline.

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

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 MSc course comprises eight assessed modules (in the form of six assignments and two exams), in which students gain an understanding of world-class business practice, an industry-led group and an individual project. Students are also supported through individual coaching and an online learning platform.

This part-time course is approved to meet the requirements of the Level 7 Through-life Engineering Specialist Apprenticeship Standard. Find out more on studying our Through-life Engineering Services Specialist Apprenticeship or visit the Apprenticeship course page.

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.

Information Management

Managing Assets and Value

Leadership and Change Management

Through-Life System Effectiveness

Diagnostics and Prognostics

Through-Life Business Models and Servitisation

Operational Availability and Risk

Optimising Whole Life Cost and Performance Management

"The course is well structured, intense and enjoyable. Cranfield University academics are supported by industry experts and this mix of teaching styles works for me. In the day job it would take many years to gain the same depth and breadth of topic understanding that we will enjoy after our two years of study."

Jonathan Neal

Capability Development Manager, Engineering for Services, Through-life System Sustainment MSc (2014)

Accreditation

The Through-life System Sustainment MSc is accredited by the Institution of Mechanical Engineers (IMechE), Institution of Engineering and Technology (IET) and Royal Aeronautical Society (RAeS) 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

Come and find out if Cranfield is the right place for you. Visit campus for yourself or join us virtually to meet current students and academics at one of our upcoming open events: www.cranfield.ac.uk/study/ways-to-meet-us

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