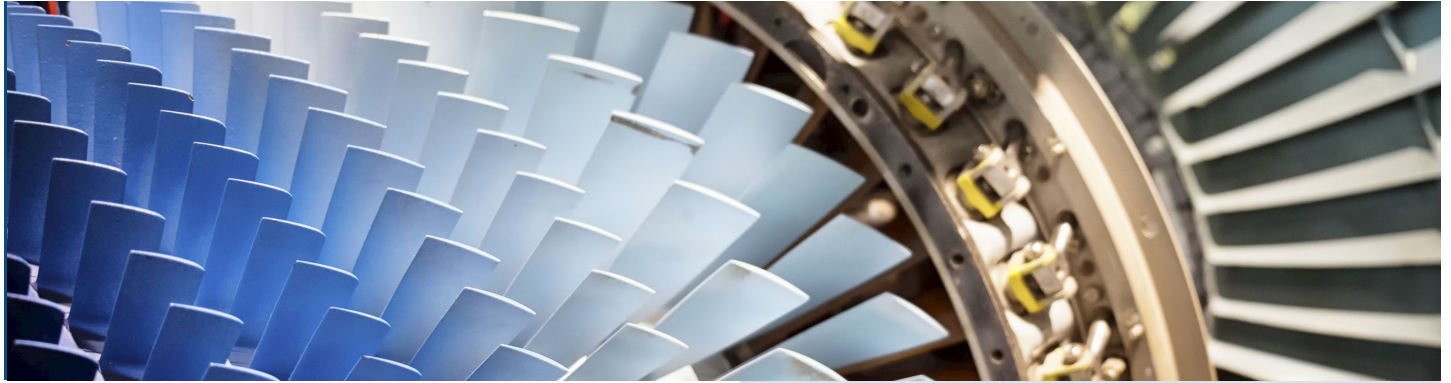




Rotating Machinery, Engineering and Management option - MSc in Thermal Power and Propulsion

www.cranfield.ac.uk/RotatingMachinery



Rotating machinery is employed today in a wide variety of industrial applications, including the oil, power and process industries. With the continuing expansion of the applications of rotating machinery, qualified personnel are required by increasingly large numbers of users.

Rotating Machinery, Engineering and Management is a specialist option of the MSc in Thermal Power and Propulsion providing a comprehensive background in the design and operation of different types of rotating equipment for power, oil, gas, marine and other surface applications.

Who is it for?

Designed for those seeking a career in the design, development, operation and maintenance of power systems. Graduates are provided with the skills that allow them to deliver immediate benefits in a very demanding and rewarding workplace and therefore are in great demand. This course is suitable for graduates seeking a challenging and rewarding career in an international growth industry.

Your career

Over 90% of the graduates of the course have found employment within the first year of course completion. Many of our graduates are employed in the following industries:

- Gas turbine engine manufacturers,
- Airframe manufacturers,
- Airline operators,
- Regulatory bodies,
- Aerospace/energy consultancies,
- Power production industries,
- Academia: doctoral studies.

Cranfield's Career Service is dedicated to helping you meet your career aspirations. You will have access to career coaching and advice, CV development, interview practice, access to hundreds of available jobs via our Symplicity platform and opportunities to meet recruiting employers at our careers fairs. Our strong reputation and links with potential employers provide you with outstanding opportunities to secure interesting jobs and develop successful careers. Support continues after graduation and as a Cranfield alumnus, you have free life-long access to a range of career resources to help you continue your education and enhance your career.

Overview

Start date

March or October

Duration

Full-time MSc: one year; PgDip: up to one year

Qualification

MSc, PgDip

Study type

Full-time

Structure

Taught modules 50%, individual research project 50%

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 engineering, mathematics, physics or an applied science 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.

ATAS clearance

This course requires Academic Technology Approval Scheme (ATAS) clearance.

ATAS is run by the UK Government's Foreign, Commonwealth and Development Office (FCDO) and applies to international students, except exempt nationalities, who need a visa to study in the UK. Further information can be found in our Application guide.

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 consists of approximately eight to twelve taught modules and an individual research project. The taught programme consists of eight compulsory modules and up to four optional modules.

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.

Gas Turbine Performance, Simulation and Diagnostics

Mechanical Design of Turbomachinery

Turbomachinery and Blade Cooling

Combustors

Engine Systems

Management for Technology

Gas Turbine Operations and Rotating Machines

“My lecturers and professors felt more like my colleagues, with their decades worth of industrial experience and academic research crafted well into a year’s MSc course. It is safe to say whether you have just finished your BEng, or building an academic bridge to your career; this course will teach you everything and more about propulsion, management and the engine. A one of a kind course, at a one of a kind institution.”

Simran Dev

current student, Thermal Power and Propulsion MSc

Accreditation

The Thermal Power and Propulsion MSc is accredited by Royal Aeronautical Society (RAeS) and the Institute of Mechanical Engineers (IMechE) 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 and PgDip do not meet in full the further learning requirements for registration as a Chartered Engineer.



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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

January 2025

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.