



Thermal Power - Rotating Machinery, Engineering and Management option

MSc/PgDip

Rotating machinery is employed today in a wide variety of industrial applications including oil, power, and process industries. With the continuing expansion of the applications of rotating machinery, qualified personnel are required by the increasingly large numbers of users. Rotating Machinery, Engineering and Management is a specialist option of the MSc in Thermal Power providing a comprehensive background in the design and operation of different types of rotating equipment for power, oil, gas, marine and other surface applications.

The MSc option in Rotating Machinery, Engineering and Management is structured to enable you to pursue your own specific interests and career aspirations. You may choose from a wide range of elective modules and select an appropriate research project. An intensive two-week industrial management course is offered which assists in achieving exemptions from some engineering council requirements. You will receive a thorough grounding in the operation of different types of rotating machinery for aeronautical, marine and industrial applications.

Course structure

The course consists of taught modules and an individual research project. There is also an opportunity to choose from an extensive choice of optional modules to match specific interests.

Individual project

You are required to submit a written thesis describing an individual research project carried out during the course. Many individual research projects have been carried out with industrial sponsorship, and have often resulted in publication in international journals and symposium papers.

Future career

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.

Example modules

The taught programme consists of compulsory and elective modules.

Compulsory:

- Combustors,
- Engine Systems,
- Gas Turbine Performance Simulation and Diagnostics,
- Gas Turbine Operations and Rotating Machines,
- Management for Technology,
- Mechanical Design of Turbomachinery,
- Turbomachinery and Blade Cooling.

Duration:

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

Start date:

March or October.

Location:

Cranfield Campus.

Entry requirements:

First or Second class UK Honours degree (or its equivalent) in engineering, mathematics, physics or an applied science.

Applicants who do not fulfil the standard entry requirements can apply for the Pre-master's in Engineering programme, 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/rotatingmachinery