

MTech Water Processes

Become an MTech Associate

The Master of Technology – Advanced Professional Masters (MTech) qualification is an innovative model of postgraduate study combining taught Masters study, company-based research, professional development and industrial experience. It has been designed to meet industry's increasing demand for high calibre professionals by balancing the teaching of technical knowledge with the development of applied, commercially driven research capability.

Associates undertaking the MTech award complete an extended period of career development through research in industry with a sponsoring organisation at the same time as developing their technical knowledge and professional practice towards chartered status.

Benefit from excellent career opportunities

The MTech Water Processes is the ideal programme for individuals who want to make a real difference to delivering reliable water supplies, or to maintaining and enhancing river and ground water supply. The UK water industry has a high demand for 'process literate' graduates who can design, engineer and manage water and wastewater treatment plants, and identify, evaluate and introduce innovations. MTech associates work on key projects with real responsibility, contributing to service improvement and the delivery of benefits to their sponsoring company. Successful associates can go on to secure positions with their sponsoring company, making an ongoing contribution to operating performance. Graduates develop the potential to progress rapidly to management positions.

Benefit from our expertise

The Centre for Water Science at Cranfield University is recognised internationally as a centre of excellence. It is the UK's largest postgraduate group specialising in process technologies, engineering and policy for water quality improvement. Industry practitioners teach alongside a wide range of subject specialists. Group and individual thesis projects are supported by sponsoring organisations. Prizes are offered annually to recognise success.

Benefit from 'hands-on' experience

The MTech programme focuses on the practical application of innovative techniques while developing an individual's professional career path. It involves associates spending the majority of their time based within their sponsoring organisation, gaining hands-on experience and developing their learning in an industrial context.

Summary of benefits

- Company sponsored programme
- Real responsibility and challenge from the outset
- Pathway to a career in the water industry
- Tailored to meet the demands of industry and employers
- Combines 'hands-on' experience in industry with taught study
- Cranfield graduates are highly sought after by industry



Course Details

Duration: 2 years full-time

Start date: October

Funding: This company sponsored programme offers suitably qualified associates £10,500 p.a. plus fees applicable to UK students. A laptop computer is also offered.

Entry requirements: 1st or 2nd class UK honours degree or equivalent in a relevant discipline.

Contact

For further details please contact:

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Who should apply?

Science, applied science or engineering graduates keen to pursue careers within companies involved in water and wastewater treatment and service delivery, process contractors, consultants, equipment manufacturers, suppliers and industrial water users. Graduates currently working in the sector and individuals with considerable relevant experience may also apply.

Programme overview

Associates are registered full-time and complete a combined programme of campus and company-based study over a fixed period of two years.

The course comprises eight assessed modules, two group projects, an individual research project portfolio carried out within the sponsoring organisation, and an industrial placement report.

Phase 1 Associates spend from October to December of the first year at Cranfield undertaking five compulsory modules.

Phase 2 The following 12 months are spent on placement in the associates' sponsoring organisation developing a professional portfolio of project work.

Phase 3 Associates return to Cranfield to complete the remaining taught modules and a second group design project over a period of four months. The remaining modules are determined by the associate in discussion with the sponsoring organisation and the Course Director at Cranfield.

Phase 4 Associates then return to their sponsoring organisation for three to four months to undertake a final project and complete the MTech degree period by writing and submitting a portfolio-based thesis.

The course is designed to fulfil the professional requirements of the Chartered Institute of Water and Environmental Management (CIWEM). Associates are encouraged to progress towards Chartered Engineer or Scientist status.

Modules

- Biological Processes
- Chemical Processes
- Hydraulics and Pumping Systems
- Physical Processes
- Process Science and Engineering
- Research Processes
- Risk Management and Reliability Engineering
- Water and Wastewater Treatment Principles

Why Cranfield University

Wholly postgraduate with an international community and a truly global reputation, Cranfield University is recognised globally for its multidisciplinary approach to teaching and research. With a top two ranking for staff to student ratios in the UK, an excellent rating for teaching, and exceptional facilities, Cranfield makes an ideal destination for advancing careers.

All courses are designed to meet the training needs of industry and have a strong input from experts in their sector. Our graduates are highly sought after by leading organisations, internationally.

