



# Water and Wastewater Processes MSc - Engineering route

[www.cranfield.ac.uk/WaterAndWastewaterProcesses](http://www.cranfield.ac.uk/WaterAndWastewaterProcesses)



## Develop a career in Water and Wastewater Engineering

Our Water and Wastewater Processes MSc offers you two distinct study routes to ensure you can tailor your study to your specific needs and career prospects.

By choosing this Water and Water Processes - Engineering route, you will apply engineering principles for the effective selection, design and operation of water and wastewater treatment processes and assess performance, environmental impact, energy, risk and cost.

## Who is it for?

This route is best-suited for those who want to pursue an engineering position in the water industry. This course will build on your existing knowledge with up-to-date skills and advanced concepts in the operation, control, design, regulation and management of the water systems and networks of the future. Whether you want to work for an organisation in the private or public sector or be an independent developer, inventor, scientist, or creator, this course will provide you with the skills to meet your career aspirations. The Engineering route is well-suited to those from a wide range of academic backgrounds, including (but not limited to) environmental engineering, chemical engineering, civil engineering, chemistry, biochemistry, microbiology and public health.

## Your career

This MSc equips the students with the knowledge and skills required to pursue a career in water engineering in the public and private sectors or an academic career (PhD). This course prepares students for a wide range of careers including commissioning engineer, process engineer, asset manager, engineering consultant, process scientist, regulatory scientist/inspector, researcher government and non-governmental organisation (NGO) roles.

## Overview

### Start date

Full-time: October, part-time: October

### Duration

Full-time: one year, part-time: two-three years

### Qualification

MSc, PgDip, PgCert

### Study type

Full-time / Part-time

### Structure

Taught modules 80 credits/800 hours, Group projects 40 credits/400 hours, Individual project 60 credits/600 hours

### 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 science, engineering or related discipline.

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

## Fees

Please see [www.cranfield.ac.uk/fees](http://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

In this Engineering route of the MSc, students get to learn more about the engineering aspects of water and wastewater treatment systems.

The course comprises a taught programme of five core modules, two route modules, and one elective module. You will then go on to study a group project and an individual project.

### 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.

#### Global Water Sector

#### Water and Wastewater Treatment Principles

#### Process Science for the Water Sector

#### Water and Wastewater Treatment Processes

#### Advanced Water and Wastewater Treatment Processes

#### Hydraulics and Pumping principles for Water and Wastewater

#### Risk and Asset Management for Water and Wastewater

### Elective modules

Select one from the list below

#### Nature-based Solutions Design

#### Resource Recovery for Water and Wastewater

"The deep learning I have acquired, especially in the key principle of wastewater treatment systems, the constant opportunity to interact with experienced water professionals during classes and the site visits to UK water company facilities have helped me a lot to deepen the knowledge that I have acquired during classes."

#### Walter Pillajo Corella

Technical Support and Sales Engineer, Kubota Corporation, Water and Wastewater Engineering MSc (now known as Water and Wastewater Processes MSc)

## Accreditation

The MSc of this course is accredited by the Chartered Institution of Water and Environmental Management (CIWEM).



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](http://www.cranfield.ac.uk/openday)**

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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.