# Water and Wastewater Processes MSc - Environmental Science route

www.cranfield.ac.uk/WaterAndWastewaterProcesses

## Make a difference in Water and Wastewater with your career

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.

In this Environmental Science route, students will apply scientific principles to assess the environmental impacts of climate change, pollution discharges and emerging contaminants on the quality and treatability of water resources, proposing solutions in a water and wastewater treatment context.

## Who is it for?

The Environmental Sciences route is ideal for those who want to make a real difference in protecting public health, providing vital infrastructure for society, and improving the health of our rivers, lakes, groundwaters and coastal areas.

It is well-suited to those from a wide range of academic backgrounds, including (but not limited to) environmental science, social sciences, chemistry, biochemistry, microbiology, and public health.

## Your career

This MSc equips the students with the knowledge and skills required to pursue a career in environmental science in both public and private sectors. In addition to providing a basis to pursue further studies (PhD), the course prepares the students for a wide range of careers including process scientist, regulatory scientist/inspector, researcher government and non-governmental organisation (NGO) roles, catchment scientist, environmental consultant, water quality scientist, sustainability scientist.

## 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** 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 the Environmental Science route, students will critically assess the water environment and its quality, how it is monitored, its influence in water and wastewater treatment systems and how treated wastewater influences environmental water quality. They will also assess the processes that influence water resources, the impact of weather events and climate change and their consequences on water quality and availability.

The course comprises a taught programme of 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**

**Catchments and Climate Change**

**Environmental Water Quality**

## Elective modules

Select one from the list below

**Nature-based Solutions Design**

**Resource Recovery for Water and Wastewater**

> "It is the best place because the interactions between students and lecturers are superb."
>
> **Elvis Boampong**
> Water and Wastewater Engineering, 2021

# Accreditation

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

CIWEM Chartered Institution of Water and Environmental Management
Accredited Course

**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**

December 2024