



# Soil Science MSc

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



The importance of sustainable and resilient soil management has surged in recent years. Soils and their delivery of critical goods and services, are a fundamental asset for the health, sustainability and resilience of the terrestrial environment, its ecosystems, as well as the longevity and productivity of society. Recently, there has been widespread recognition from researchers, industry, and policy arenas of the burgeoning pressures faced by soils and the urgency needed to deploy robust land management strategies to address these.

Co-designed by UK industry, the Soil Science MSc will equip and upskill organisations with the knowledge, understanding, tools, practices, and resources to achieve optimal soil management. It will deepen your knowledge of soils across diverse land-use contexts, delve into cutting-edge technologies for effective decision-making, showcase best practice in analysing soils on and off site, and help you build the personal competencies you need as a soil scientist.

On completion of the programme, you will acquire a Master's Degree in Soil Science. You will also attain Technical Membership of the British Society of Soil Science, and you will be eligible to apply for Chartered Scientist status.

## Who is it for?

Soil scientists and consultants, who are keen to upskill their knowledge and understanding of soil monitoring and analysing soil conditions, as well as those who assist farmers in determining soil health and optimising sustainable management strategies.

Employees of organisations that offer guidance on earthworks, construction and demolition projects, or urban green infrastructure, who are keen to advance their expertise in assessing and mitigating the effects of such works on urban soils.

Soil mappers and surveyors who use a combination of digital technology and traditional tools like soil pit digging to evaluate soil types for various stakeholders.

Environmental consultants specialising in providing advice on sustainable materials, waste management, biodiversity, flood control, and ecosystem restoration.

Government agencies and non-profit organisations that inform soil policy decisions and develop guidance documents.

## Overview

### Start date

14 January 2025

### Duration

Two years part-time - plus 3 months to complete EPA

### Qualification

MSc

### Study type

Part-time

### Structure

Taught modules: 120 credits, Reflective portfolio project: 60 credits

### Campus

Cranfield campus/Online

### 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 engineering or science-based 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

Taught modules: 120 credits, Reflective portfolio project: 60 credits.

### 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.

#### Project Management and Portfolio

#### Introduction to Soils

#### Soil Policy

#### Desk-based Soil Assessments and Basic Statistics

#### Soil Surveying

#### Field-based Methods for Rural Soils

#### Fundamental Laboratory Methods in Soil Science

#### Soils - a Nexus

#### Soil Mapping, Modelling and GIS

#### Advanced Data Analysis and Statistics

#### Field-based Methods for Urban Soils

#### Advanced Laboratory Methods in Soil Science

#### Sustainable and Resilient Land Management

"Everyone at Cranfield University is exceptional. As a postgraduate institution, the students and staff foster a highly educated and knowledgeable environment. Coupled with the university's facilities, this creates an extraordinary setting that addresses global challenges."

**Regis Umugiraneza**

Future Food Sustainability MSc, 2023-2024

## Accreditation

This course aligns with British Society of Soil Science for technical membership. The apprenticeship will align with the requirements for membership with British Society of Soil Science. Those enrolling for the apprenticeship will be able to apply for Early Careers membership of the Society which will automatically change to technical membership upon demonstration of successful completion of the apprenticeship.

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

December 2024

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.