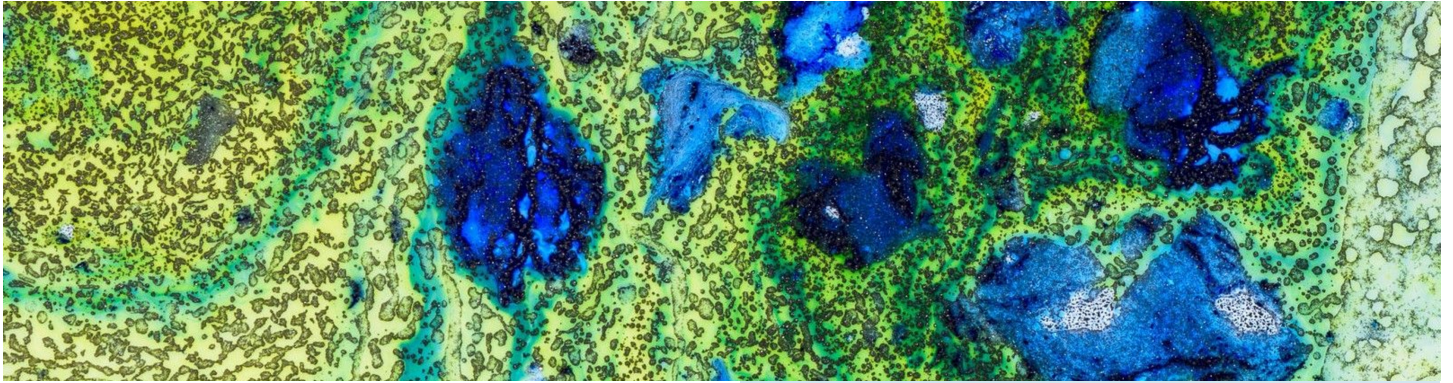




# Advanced GIS and Remote Sensing MSc

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



## Become a highly-skilled and sought-after professional in geospatial data science

Sustainable use or conservation of the earth's resources requires the organisation, utilisation and integration of technologies such as database management, image processing and digital cartography, to ensure provision of high quality, reliable and up-to-date information. The Advanced GIS and Remote Sensing master's (previously known as Geographical Information Management) is a unique and innovative course that has been developed in direct collaboration with industry and in response to the increased global demand for multi-disciplinary managers, advisors and consultants in resource management. Taught by leading academic experts, this course is unique in providing balanced coverage of the key GIS technologies to prepare you for a successful career in the rapidly growing geospatial sector.

## Who is it for?

We welcome students from a variety of backgrounds who have a passion for technology and data. We bring together students who want to understand their role in sustainability and the new global economy, to solve real-world problems and make a positive global impact. You will gain experience of world-class spatial problem solving, as well as developing a range of personal and leadership skills to set you on the path for a rewarding career in any one of the growing range of industrial and research sectors that now routinely make use of geospatial information to solve global challenges.

## Your career

Successful students develop diverse and rewarding careers in the spatial information industry, national and local government, consultancies, utilities, and research organisations. The international nature of this course means that career opportunities are not restricted to the UK. Cranfield graduates develop global careers and this course is internationally recognised by employers across the scientific, industrial and educational communities.

The course is designed in direct collaboration with industry to provide you with the knowledge and practical skills to prepare you for a successful career across the full range of global sectors, including:

Environmental management, Natural resource management, Urban planning, Transportation planning, Emergency management, Science, Government and Business intelligence.

## Overview

### Start date

Full-time: October, part-time: October

### Duration

One year full-time, two-three years part-time

### 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

This course comprises eight modules, a group project and an individual project. Courses are not isolated from the real world and many are supported by research groups working on cutting-edge programmes.

### 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.

**GIS and Spatial Data Management**

**Aerial Photography and Digital Photogrammetry**

**Scientific Python**

**Applied Earth Observation**

**Image Processing and Analysis**

**Advanced GIS Methods**

**Environmental Resource Survey**

**Web Mapping**

## Accreditation

The MSc in Advanced GIS and Remote Sensing is accredited by the Royal Institution of Chartered Surveyors and the Chartered Institution of Civil Engineering Surveyors.



## Class profile 2023/24

### Gender:

Male: 42% - Female: 58%

### Age range:

20 - 39 years

### Nationality:

UK: 50% International: 50%

### Class size:

12

**"I chose Cranfield because of the academic excellence in my course – it's highly regarded in and around the UK and so are its links with industries."**

**Ashish Dutta**

Geospatial Researcher, The James Hutton Institute,  
Geographical Information Management MSc (now Advanced  
GIS and Remote Sensing MSc), 2021-2022

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)**

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.