

A satellite view of Earth from space, showing the curvature of the planet and a mix of green, brown, and blue landmasses and oceans. The sun is visible as a bright, glowing orb in the upper left, casting a lens flare across the scene.

UNIVERSITY OF  
Southampton

Explore the frontiers of  
geospatial information.  
MSc in Applied GIS  
and Remote Sensing

# This is an innovative, interdisciplinary programme combining the areas of remote sensing and spatial analysis (GIS), and is particularly suitable if you wish to obtain a broad overview of the subject, with scope for specialisation.

Teaching is delivered through a combination of face-to-face lectures and computer practicals. The programme has three distinctive features:

- ➔ It focuses on 'real world' problems by applying the technology to areas such as public health and environmental management
- ➔ It combines the study of two key technologies – remote sensing and geographical information systems – within a single programme
- ➔ It is characterised by strong external links outside the University

## Modules

Compulsory modules:

- ➔ Skills and Project Work
- ➔ Core Skills in Geographic Information Systems
- ➔ Practical skills in remote sensing
- ➔ Topographic Data Analysis Techniques and Applications

Optional modules:

- ➔ Environment and Development
- ➔ GIS for Environmental Management
- ➔ GIS for the Analysis of Health
- ➔ GIS for Health Care Management
- ➔ Programming skills in remote sensing

## Dissertation

You are given the option to undertake an academic led or industry led dissertation. If you decide for the industry-led dissertation then the research project will be defined in agreement with your tutor and supervised by an appropriate member of staff and you will also be given an industrial mentor. We actively encourage an industry led approach to the dissertation and our close ties with a variety of organisations like the Ordnance Survey, Arup Consulting and Astrium geo information services provide an opportunity to gain practical industry experience.

## Resources/facilities

Masters students have access to a dedicated high-end geoprocessing suite, where key software packages like ArcGIS, Envi and ERDAS Imagine are available for use. There are also a wide range of workstation clusters throughout the campus. In studying calibration and validation of remotely sensed imagery, students also have the opportunity to work with the School's field spectroscopy facilities and for topographic applications, our Leica ScanStations.

### The following courses are also available

MSc in GIS by Online Distance Learning – applications via University of Leeds at [www.gislearn.org](http://www.gislearn.org)

MSc Geo-information Science and Earth Observation for Environmental Modelling and Management  
[www.gem-msc.org](http://www.gem-msc.org)



“Being one of the leading groups in Remote sensing and Geographical Information Systems research in the UK, we provide world class training in preparation for a career in the Geo-information sector.”

**Dr Jadu Dash**, Senior lecturer in Remote Sensing

### About the University of Southampton and City

The University of Southampton is already one of the top 10 research universities in the UK and has achieved consistently high scores for its teaching and learning activities.

The University is part of The Worldwide Universities Network or WUN, a group of sixteen leading research institutions of international standing from around the world which have come together with the aim of promoting a global research culture through collaborative academic activity.

The city of Southampton is one of the most lively and dynamic cities in the south of England. It offers a vibrant and varied nightlife, numerous leisure facilities, superb heritage attractions, bustling marinas, beautiful parks and great places to eat and drink. There really is something for everyone.

Southampton is one of the UK's greenest cities with several large parks situated throughout the centre. Four of our campuses are next to Southampton Common – 326 acres of managed woodland – perfect for walking, jogging or a spontaneous game of football. The beautiful New Forest National Park is right on our doorstep, and the coastal resorts of Bournemouth, Poole and Brighton are nearby. The historic cathedral cities of Salisbury and Winchester are even closer. London is also just over an hour away by train. With its own international airport, the city is within easy reach of Europe, with good connections to cross-channel ferries and the Eurostar rail service.

“The programme offers the opportunity to successfully engage in software that is extensively used in the industry and covers a wide range of applications that enable the student to develop multiple skills in different fields.”

**Ioanna Chounta**

MSc in Applied GIS and Remote sensing, 2013

### Careers

Postgraduate employment opportunities lie within the Earth Observations or geographical information systems/science (GIS) communities, consultancies, private and public sectors. Of all our 2013 graduates eligible to work in the UK, 100% have secured full-time employment upon graduation. Employers have included Arup consulting, Snowflakes software the Wessex Wild Life Trust, Paul Mew Associates, FIND Mapping Limited, the Defence Mapping agency, SeaZone and Centre for Ecology and Hydrology.

To learn more about our MSc in Applied Geographical Information Systems and Remote Sensing visit [www.southampton.ac.uk/spatialfrontiers](http://www.southampton.ac.uk/spatialfrontiers)

## Find out more

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