



# Your Programme

## MSc Applied Geospatial Information Science

Building on 20 years of excellence in postgraduate teaching of remote sensing and GIS, the Master of Science degree in Applied Geospatial Information Science promotes the integrated study and application of the geospatial technologies through theory and practice, combining core techniques, practical skills and environmental applications. To facilitate your learning experience you will use state-of-the-art software and hardware in a dedicated classroom to explore the different technologies and their applications. The programme draws upon a wide range of international, national, and local expertise in the coastal and marine sciences, landscape ecology and landscape change, coastal management, renewable energy, geology and hydrocarbon exploration, risks and hazards, spatial planning, cartography, field data collection, and archaeology.

### Reasons to Study Applied Geospatial Information Science at Aberdeen

- Building on decades of postgraduate teaching of remote sensing & GIS
- Promotes the integrated study and application of geospatial technologies
- Develops practical skills in the 'core' techniques in the first half-session
- Covers a wide range of geoscience applications in the second half-session
- Draws on local expertise, of international repute, for example in landscape change, coastal zone management, sub-sea imaging, cartography, alternative energy and hydrocarbon exploration
- Qualification can be obtained at Certificate, Diploma or MSc degree level

### Entry Requirements

A degree or equivalent qualification at second-class Honours or above, in Agriculture, Computing Science, Ecology, Engineering, Environmental Science, Forestry, Geography, Geology, Geomatics, Marine Science, Physics, Spatial Planning, Plant Science, Soil Science, Zoology or a cognate subject. Candidates with degrees in other subject areas will be considered if they can demonstrate interest, aptitude and experience in a field relevant to the application of geospatial technology.

### Duration

12 months full-time or 24 months part-time (MSc); 9 months full-time or 20 months part-time (PgDip); 4 months full-time or 8 months part-time over 2 years (Certificate). Success in the first half-session and second half-session courses is necessary to progress to the dissertation or project stage.

### First Half-Session

- Introduction to Database Systems
- Fundamentals of Geographical Information Systems (GIS), and Spatial Analysis
- Fundamentals of Cartography, Map Design and Geovisualisation
- Fundamentals of Image Acquisition, Analysis and Processing

## Second Half-Session

- Research Design and Methods
- Applied Image Analysis and Processing
- Current Issues and Applications of the Geospatial Technologies
- Applied GIS Project Planning & Spatial Analysis

## Final Stage

- Dissertation in Applied Geospatial Information Science [MSc Candidates] OR
- Project in Applied Geospatial Information Science [Diploma Candidates]

## Teaching

Teaching in the first half-session is by a combination of illustrated lectures, practical demonstrations and student-led seminar discussions on pre-arranged topics. During the second half-session the balance changes towards more student-centred learning making use of internet resources, group practical work, and seminar discussions with experts in a range of application fields. There will also be local site visits to offices which make use of geospatial technologies.

## Careers

A recent sample survey, primarily in Scotland, of potential employers indicated that since 2002 there had been a 30 percent increase in demand for people with geospatial technology skills, and that the demand was likely to grow. Aspects of geospatial technology are of increasing importance in many areas of employment concerned with the landscape, for example in national and local government (where the appearance of 'Geodata Service Units' is increasing), in nature conservation agencies, in hydrocarbon exploration and oilfield management, in environmental consultancy, and in large civil engineering projects.

## How to Apply/Further Information

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## How to Apply

Please visit [www.abdn.ac.uk/sras/postgraduate/apply](http://www.abdn.ac.uk/sras/postgraduate/apply) for details on how to apply.