



**LUND**  
UNIVERSITY

# MSc in Geomatics

LUND UNIVERSITY, SWEDEN

- Master of Science in Geomatics
- 2 years, full-time, 120 ECTS credits
- Department of Physical Geography and Ecosystem Sciences
- Lund Campus
- Application deadline: January 2021
- Programme start: August 2021

## Programme overview

Geomatics involves the acquisition, management and analysis of phenomena with a spatial reference. Spatial analysis finds applications in many areas, such as health, environment management, natural resources assessment, urban planning, geology, archaeology and agronomy. This programme aims to provide you with knowledge in spatial analysis focusing mainly environmental applications. Models and theories for understanding the Earth's climate and ecosystems are integrated with knowledge for collecting environmental information using remote sensing, storing the information in databases and theories behind GIS.

## Programme modules/courses

Core courses in the programme are Geographical Information Systems 1 (15), Geographical Information Systems 2 (15), Spatial Analysis (7.5), Internet GIS (7.5), Satellite Remote Sensing (15), Algorithms and GIS (7.5), Geographical Databases (7.5) and Programming (15). For students that already have a strong background in this field, elective courses, e.g. Climate Change & Impact on Environment (15), Global Ecosystem Dynamics (15) and Greenhouse Gases and Biogeochemical Cycles (15) could be alternatives to the core courses. The programme ends with a Master's degree project (30).

## Career prospects

Graduates from the programme will be able to work as GIS and environmental specialists in public and private sectors within areas such as environmental monitoring, urban planning and development, natural resources and sustainability. The programme is also suitable for students interested in research careers.

## Entry requirements and how to apply

### ENTRY REQUIREMENTS

A Bachelor's degree of at least 180 credits in Science or Engineering or the equivalent, within a specialisation of relevance to the study programme. English Level 6 (equivalent to IELTS 6.5, TOEFL 90). See [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se) for details on English proficiency levels.

### HOW TO APPLY

**1. Apply online:** Go to [www.lunduniversity.lu.se/geomatics](http://www.lunduniversity.lu.se/geomatics). Click on "Apply" and follow the instructions for the online application at [www.universityadmissions.se](http://www.universityadmissions.se), the Swedish national application website. Rank the chosen programmes in order of preference.

**2. Submit your supporting documents:**

- **General supporting documents:** Check what documents you need to submit (i.e. official transcripts, degree diploma /proof of expected graduation, translations, proof of English, passport) and *how* you need to submit them at [www.universityadmissions.se](http://www.universityadmissions.se).
- **Programme-specific supporting documents:** When applying for this programme, you must also submit a 'Summary Sheet'. See the programme webpage for details.

**3. Pay the application fee** (when applicable).





### SELECTION CRITERIA/ADDITIONAL INFORMATION

The selection will be based on grades awarded for previous academic courses, particularly qualifying courses, as well as the statement of purpose and professional qualifications and/or other practical experience of relevance (from the applicant's 'Summary Sheet').

### TUITION FEES

There are no tuition fees for EU/EEA citizens. For non-EU/EEA citizens, the tuition fee for this programme is SEK 145 000 per year. See [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se) for details on tuition fees.

### About the Department of Earth and Ecosystem Sciences

At our department, we are engaged in education and research spanning a wide field of study, ranging from the Earth's oldest geological history to ongoing processes and changes in our landscape. We investigate the formation and composition of Earth, the development of life, the effects of recent glaciations on our landscape and how climate has changed over both short and long time scales.

Our work also concerns the climate of today and the future, the interactions of ecosystems with the atmosphere, as well as applied environmental problems such as polluted soils. Our diverse and cutting-edge research is well reflected in the courses and education programs that we offer, which means that our students are well prepared for the challenges of the labor market after graduation.

### About Lund University

Lund University was founded in 1666 and is repeatedly ranked among the world's top 100 universities. The University has 40 000 students and more than 8 000 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

Lund is the most popular study location in Sweden. The University offers one of the broadest ranges of degree programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. Because of its wide disciplinary range, interdisciplinary collaborations and engagement with wider society, Lund University is particularly well equipped to meet complex societal challenges. With partner universities in around 70 countries, the University's profile is distinctly international.

Lund University has an annual turnover of more than EUR 830 million, of which two-thirds go to research in our nine faculties, enabling us to offer one of the strongest and broadest ranges of research in Scandinavia.

The establishment of the world-leading facilities MAX IV and ESS will have a major impact on future scientific and industrial development in both materials science and life science. MAX IV is the leading synchrotron radiation facility in the world, while the European research facility ESS will be the world's most powerful neutron source when it opens for research in 2023. Adjacent to these facilities, Science Village Scandinavia is also being developed into a meeting place and testing environment for research, education and entrepreneurship.

Learn more at [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se)

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### CONTACT

Programme webpage

[www.lunduniversity.lu.se/geomatics](http://www.lunduniversity.lu.se/geomatics)

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