



LUND
UNIVERSITY

Master's Programme in Geology

LUND UNIVERSITY | SWEDEN

- Master of Science in Geology
- 2 years, full-time, 120 ECTS credits
- Department of Geology
- Lund Campus
- Application deadline: January 2025
- Programme start: August 2025

PROGRAMME OVERVIEW

Are you fascinated by the structure of Planet Earth, continental plates and volcanoes, climate variations and ice ages, and how evolution has shaped the world we live in today? Do you find it appealing to use knowledge about Planet Earth's dynamic processes to assist in efforts to meet current societal challenges? This Master's programme gives you leading-edge expertise that is in demand in the national and international labour market.

This Master's programme provides you with specialised knowledge about bedrock geology, paleoclimate, paleoenvironments, and humankind's effect on the environment. You will learn about the formation and structure of Planet Earth, the dynamics of Earth's crust, and sedimentary processes in different environments. You will also gain insights into environmental changes on time scales from thousands to millions of years, prehistoric life and how plants and animals evolved over Earth's long history. This is studied through geochronology, geochemistry, sedimentology, structural geology, palaeontology, and paleoecology.

Your lectures and exercises will be held in well-equipped facilities. The department has a wide range of advanced research equipment. Here, you will find instruments for geochemical analysis, state-of-the-art microscopes for analysing rocks and microfossils, and various dating laboratories. Fieldwork is an important part of the programme. You will participate in field courses and excursions in Sweden and abroad. The Master's programme has a strong connection with research and all members of the teaching staff are researchers. The department has several world-leading research teams. The language of instruction for the programme is English. You will conduct oral and written presentations and gain extensive experience working in groups.

PROGRAMME MODULES/COURSES

In the first semester, you will take courses in geoscience methods, including isotope geochemistry, geochronology, statistics, and sedimentary geology and basin analysis. In the following spring semester, you can study mineralogy, petrology, and Quaternary geology. Alternatively, you can choose courses on hydrogeology and palaeontology. On admission to the programme, you will automatically be placed on the first semester's two courses. The second year of studies consists of optional courses (up to 30 credits) and a degree project of 30, 45 or 60 credits. The degree project normally includes fieldwork in Sweden or abroad, followed by analysis work in one of our research laboratories. Data processing and a literature review are included in the thesis work.

- Semester 1: Methods in geoscience (15 credits), Sedimentary geology and basin analysis (15 credits)
- Semester 2: Two of the following courses: Magmatic and metamorphic mineralogy (15 credits), Quaternary geology (15 credits), Hydrogeology (15 credits), Evolution of the biosphere, palaeoecology and palaeontology, (15 credits)
- Semester 3: Global environmental change from a geological perspective (15 credits), elective courses of up to 30 credits, or thesis project (15 or 30 credits)
- Semester 4: Thesis project (30 credits).

CAREER PROSPECTS

Demand for geological expertise will only increase in the future to address the major societal challenges we are facing. With a Master's degree in Geology, you will be well-equipped with both general and specific subject knowledge. Many of our students work as environmental consultants or specialists in the mining, construction or civil engineering sectors. Others make a career in public authorities, such as the Geological Survey of Sweden, county administrative boards or the Swedish Environmental Protection Agency, often focused on sustainable management of groundwater and other geological resources. You can also work in municipal planning, nature conservation and other types of public information within the field. Geological knowledge is in demand all over the



“Studying geology at Lund University is easily the best decision that I have ever made. The quality of teaching is excellent and regular field trips help to strengthen the bonds between students and professors. The research facilities are excellent and the department is very accommodating to your research interests.”

James Davies from the UK





world and there are good opportunities to find jobs abroad, for example concerning water supply in developing countries or major infrastructure projects. The programme also qualifies you for third-cycle studies.

ENTRY REQUIREMENTS AND HOW TO APPLY

Entry requirements

A Bachelor's degree of at least 180 credits in geology or the equivalent. The degree must include at least 90 credits in geology. English Level 6.

How to apply

- 1. Apply online:** Go to www.lunduniversity.lu.se/geology. (the link will be available from September 2024). Click on "Apply" and follow the instructions for the online application at www.universityadmissions.se, the Swedish national application website. Rank the chosen programmes in order of preference.
- 2. Submit your 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.
- **Programme-specific supporting documents:** When applying for this programme, you must also submit a 'Summary

Sheet' with your application. See the programme webpage for details.

3. Pay the application fee (when applicable).

Selection criteria/additional info

The selection will be based on grades awarded for previous academic courses and the statement of purpose for the application (from the applicant's 'Summary Sheet').

Tuition fees

Tuition fee SEK 170 000 per year for non-EU/EEA citizens. No fee for EU/EEA citizens. See www.lunduniversity.lu.se for details on tuition fees

ABOUT THE DEPARTMENT OF GEOLOGY

Lund University is the leading centre for geology education in Sweden. We cover the entire spectrum of geological disciplines, and several world-leading research groups are hosted at the Department of Geology. This competence is reflected in our education, and as a student you will be exposed to cutting-edge analytical techniques, novel scientific results and relevant applications of geological knowledge in society. Our education is to a large extent based on field and laboratory activities, and we benefit greatly from the unusual geological diversity of southern Sweden.

CONTACT

Programme webpage (available from September 2024):
www.lunduniversity.lu.se/geology

Director of Studies

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Lund University was founded in 1666 and is repeatedly ranked among the world's top universities. The University has around 47 000 students and 8 800 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

Learn more at www.lunduniversity.lu.se



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