MSc in Atmospheric Sciences and Biogeochemical Cycles

LUND UNIVERSITY, SWEDEN

- Master of Science in Atmospheric Sciences and Biochemical Cycles
- 2 years, full time, 120 ECTS credits
- Department of Physical Geography and Ecosystem Science
- Lund Campus and partner universities
- Application deadline: January 2018
- Programme start: August 2018

Programme overview
The programme is multidisciplinary and offers a versatile education in atmospheric sciences, taught by leading scientists within the field. It will provide you with in-depth understanding of general atmospheric science, biogeochemical cycles, and processes in land-ecosystem-atmosphere interactions. You will gain knowledge of a broad range of topics within fields such as environmental physics, atmospheric chemistry, meteorology, physical geography and ecology. You will also learn how to use advanced computational and laboratory-based methods and gain experience in field measurements and operations.

There are 14 partner universities from different Nordic countries in the consortium responsible for the programme and the intention is that you select courses from several of them to tailor your profile within the programme. Students have the opportunity to apply for a dedicated scholarship to cover travel and living costs when attending courses at partner universities in other Nordic countries.

Programme modules/courses
COURSES AND NUMBER OF CREDITS: Greenhouse Gases and Biogeochemical Cycles (15), Climate Change and its Impacts on the Environment (15), Ecosystem Modelling (15), Biosphere-Atmosphere Interactions (15), Global Ecosystem Dynamics (15), electives (2x15) that preferably are studied at partner universities, Master’s thesis project (30).

Career prospects
As a graduate of the MSc in Atmospheric Sciences and Biogeochemical Cycles you will be able to work within the fields of environmental management, consultancy, climate modelling and research in both a national and international context.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A scientific first-level degree in physical geography or physics or the equivalent, comprising at least 180 higher education credits, is required for admission to the programme. There are specific entry requirements for individual courses on the programme. English Level 6 (equivalent to IELTS 6.5, TOEFL 90). See www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/atmospheric-sciences. Click on “Apply” and follow the instructions for the online application at the Swedish national application website www.universityadmissions.se. 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.
   - Programme-specific supporting documents: When applying for this programme, you must also submit a statement of purpose, a CV and a letter of recommendation with your application.
3. Pay the application fee (when applicable).

“The programme is about environmental matters in general, but climate change in particular. The Master’s programme is based on lectures, seminars and laboratory sessions. Certain courses also include fieldwork, such as trips to Abisko in northern Sweden to study the arctic environment.”

Maj-Lena Linderson, lecturer
SELECTION CRITERIA/ADDITIONAL INFO
Selection of students is based on previous university/college studies and other merits such as letters of recommendation and statement of purpose.

TUITION FEES
There are no tuition fees for EU/EEA citizens. For non-EUEEA citizens the tuition fee for this programme is SEK 145 000 per year. For details on tuition fees and scholarships, see www.lunduniversity.lu.se.

About the Department of Physical Geography and Ecosystem Science
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 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 focuses on the climate of today and the future, the interactions of ecosystems with the atmosphere, as well as applied environmental problems like polluted soils. Our diverse and cutting-edge research is well reflected in the courses and education programs that we offer, which means that after graduating our students are well prepared for the challenges of the labor market.

About Lund University
Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 42 000 students and 7 400 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 programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The compact university campus encourages networking and creates the conditions for scientific breakthroughs and innovations. The University has a distinct international profile, with partner universities in over 70 countries.

Lund University has an annual turnover of SEK 8 billion, of which two-thirds go to research. Our research is characterised by both breadth and strength and, according to independent evaluations, over 30 of our research fields are world-leading.

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, which was inaugurated in June 2016, 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
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