

- Master of Science in Water Resources Engineering
- 2 years, full-time, 120 ECTS credits
- Faculty of Engineering
- Lund campus
- Application deadline: January 2020
- Programme start: August 2020

Programme overview

Having access to clean water is the cornerstone for improving healthcare, increasing food supply, reducing child mortality rates and enhancing people's overall quality of life. It has become crucial to develop technologies that can tackle water security challenges and meet the increasing demand. By applying integrated water resources management, surface water and groundwater can be used to cover this demand in a sustainable and eco-friendly way. These are the issues we explore with our students, as well as challenges such as wastewater treatment, storm water management, coastal hydraulics, and modelling of hydrological processes. The programme is broad and covers the most important aspects of water resources engineering.

Many of the courses included in the programme contain practical elements, which allow our students to deepen their understanding of the more theoretical components and to develop both professional and academic skills. Our strong links to industry and scientific cooperation projects ensure that our courses maintain a high level of relevance to current issues and developments.

Special features of the programme

- An opportunity to specialise in fields where we have world-leading expertise, such as water and waste-water treatment, coastal hydraulics and modelling of hydrological processes
- Accessible and engaged teachers who will give you thorough feedback and help you progress throughout your studies
- Strong industry links and opportunities to work closely with local and international organisations

- A multinational, innovative and interactive learning environment

Programme modules/courses

COMPULSORY COURSES AND NUMBER OF CREDITS: Integrated Water Resources Management (7.5), Urban Water (15), Groundwater Engineering (7.5), Groundwater Modelling and Contaminant Transport (7.5), Hydromechanics (7.5), Master's degree project (30).

ELECTIVE COURSES AND NUMBER OF CREDITS: Advanced Wastewater Treatment (7.5), Water, Society and Climate Change (7.5), Coastal Hydraulics (7.5), GIS (7.5), Rainfall Runoff Modelling (7.5), Environmental Hydraulics (7.5), Finite Element Method (7.5), Pipe System Engineering and Hydraulics (7.5), Project Course I/II in Water and Environmental Engineering (7.5), Advanced course in one or more subjects.

Career prospects

The need for clean water and sanitation is a global concern affecting large, densely populated cities and smaller communities in industrialised and developing regions alike. This Master's programme will prepare you for a rewarding and challenging career within an essential profession. Our graduates play important roles in the water sector all over the world, and their educational experience in Lund has assisted them in becoming outstanding professionals.

The skills they have acquired during the programme are sought after by organisations in a wide variety of industries, from large multinational corporations and nonprofit organisations, to regional and national government bodies. Many go on to become hydrologists, process engineers, hydrogeologists, consultants and water resource managers. Others pursue an academic career within prestigious universities.

Typical examples of organisations which have employed our graduates are Sweco (Sweden), Stockholm Environment Institute (International), Hussey Gay Bell & DeYoung (USA) and Beijing YHR Environmental Engineering Co., Ltd (China). Some of our graduates move on to PhD programmes. Among



“Since water resources is a major issue in China, I believe we must solve this problem with international partnership, and to do that, you need an international perspective. I feel very lucky to be here and I really appreciate the multicultural and international environment.

Lund University offers a world-class environment, and the professors have really designed the course tracks very well. The professors also give you the space and time to talk about your idea. They will answer you with great patience. Here we have multiple solutions to a specific problem, not just one solution.”

Luan Xiangyu from China





the many universities which have accepted our students are KTH (Sweden), UC Davis (USA), and University of Melbourne (Australia).

Entry requirements and how to apply

ENTRY REQUIREMENTS

A Bachelor's degree in civil engineering, environmental engineering or equivalent, including courses in mathematics/calculus, hydraulics/fluid mechanics and geology. 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/water-resources. 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:** For information on programme-specific documentation, please check the programme webpage.
- 3. Pay the application fee** (when applicable).

SELECTION CRITERIA/ADDITIONAL INFO

Selection of students is based on academic qualifications.

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 for details on tuition fees.

CONTACT

Programme webpage

www.lunduniversity.lu.se/water-resources

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About the Faculty of Engineering

The Faculty of Engineering at Lund University (LTH) is among the leading engineering faculties in Europe with over 9 000 undergraduate students and 800 postgraduates. LTH is one of the few comprehensive engineering faculties in Sweden, and in addition to traditional engineering programmes we also offer programmes in architecture and industrial design. With a 50-year long history of research and education excellence, we are well equipped to meet the increasing global demand for more sustainable, connected and user-driven technologies, and to provide our students with the knowledge and skills they need in order to succeed within their chosen field.

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 7 600 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. Lund University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The University has a distinct international profile, with partner universities in around 70 countries.

Lund University has an annual turnover of SEK 8.5 billion, more than half of which is destined for research. Our eight faculties conduct strong research in many different areas, including over thirty research fields in which we are world-leading. Many scientific breakthroughs and pioneering innovations have originated from Lund University.

Learn more at www.lunduniversity.lu.se

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