Programme overview
On the nanometre scale, the distinction between disciplines such as physics, chemistry and biology becomes less clear. A high degree of interdisciplinarity is therefore characteristic for nanotechnology. The Nanoscience programme at Lund University has its scientific base in a physics description of nanoscale phenomena, but in addition to nanophysics you can, depending on your background and interests, choose to specialise in fields such as nanoelectronics, materials science or biophysics.

This programme is part of NanoLund, one of the world’s leading nanoscience research centres. You will interact with cutting-edge research throughout the programme, starting in the first semester and building up to the Master’s project. Moreover, by taking advantage of the wealth of courses offered by Lund University, you will be able to explore the cross-disciplinary nature of nanoscience.

Programme modules/courses
COMPULSORY COURSES AND NUMBER OF ECTS CREDITS:
- Semiconductor Physics (7.5)
- Processing and Device Technology (7.5)
- Materials Analysis at the Nanoscale (7.5)
- The Physics of Low-Dimensional Structures and Quantum Devices (7.5)
- Master’s degree project (30)

ELECTIVES: Choose elective courses for specialisations in, for example, nanophysics, materials science or biosensors.

Career prospects
There is an increasing demand worldwide for people knowledgeable in nanotechnology. Nanoscientists are not only needed in specialised nanotechnology companies but also in more traditional industries, with more and more nanotechnology being incorporated into products. Due to the close connection to world-class research, the Master’s programme also provides excellent preparation for doctoral studies and an academic career.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A Bachelor’s degree in science or engineering. Completed courses of at least 40 credits/ECTS in physics, electromagnetism, solid-state physics, multi-dimensional calculus, linear algebra and Fourier analysis. 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/nanoscience. 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).

*Please note that the information about this programme is subject to change. Please refer to www.lunduniversity.lu.se for any updates.
SELECTION CRITERIA/ADDITIONAL INFO
The selection 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.

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. We are 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.

The world-leading research facilities MAX IV and ESS which are being established in Lund will be of great significance for research and industrial development within materials and life sciences. MAX IV is the world’s foremost synchrotron radiation facility and the ESS will be the most powerful neutron source in the world once it opens for research in 2023. Science Village Scandinavia is developing nearby and is destined to become a meeting place and a test environment for research, education and entrepreneurship.

Learn more at www.lunduniversity.lu.se
Ask questions and follow news at facebook.com/lunduniversity