Programme overview
This programme offers a highly competitive education in modern microbiology. Molecular biology and genomics have transformed this topic and underlined the fundamental importance of microorganisms in most aspects of biology, from ecology to medicine. The programme spans from the use of microbial model organisms to understand function and evolution of cellular processes to the enormous importance of microbes in biotechnology, the food and pharmaceutical industries, hygiene, environmental biotechnology, etc. Much of this potential is still unexplored and the programme provides tools and knowledge for a career in this exciting area.

Special features of the programme
• Integration of experimental and applied microbiology
• Learning in an international and research-intensive environment
• Inquiry-based and research-based laboratory exercises
• Mentorship and extracurricular activities

Programme modules/courses
Courses and number of credits: Methods in Molecular Biology (15, compulsory), Microbiology (15, compulsory), Molecular Microbiology (15, compulsory), Bioimaging (7.5, optional), Antibiotics – Biology and Chemistry (7.5, optional), Bioinformatics and Sequence Analysis/Programming using Phyton (7.5 plus 7.5, optional), Master’s degree project (30, 45 or 60 credits).

Full list of electives, see http://wwwbiology.lu.se/master-programme-microbiology.

Most courses are full-time studies, and you usually take only one course at a time. The courses are typically teaching-intensive with lectures, seminars, theoretical and practical exercises as well as self-studies. During one semester you normally take two courses of 15 credits (i.e. a total of 60 credits per year).

Career prospects
The programme could form a point of entry into further postgraduate research in the field, or prepare you for a career in industry or the public sector. For microbiologists there is a broad employment market, for example in the biotechnology, pharmaceutical and food industries, as well as within various national and international authorities and organisations.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A Bachelor’s degree including cell- and molecular biology (30 ECTS credits), genetics (7.5 ECTS credits), microbiology (7.5 ECTS credits), biochemistry (15 ECTS credits), and chemistry (20 ECTS credits). English 6/English Course B. See www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/microbiology. 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.

“The study of microbes is so fascinating and challenging. It is thrilling to learn about the diversity of these germs, which are present almost everywhere on this planet from deep sea thermal vents to permafrost soils. I have always dreamt of studying them in detail and I now have the opportunity to do so in one of the finest institutes. From my studies of microbiology at Lund University I have learned about the prospects, scope and the intense future this field possesses. The lectures, labs and projects were all challenging and I have been provided with a great opportunity to learn new things every day.”
Manoj Kumar Gopala Krishnan, from India
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.

4. Pay the application fee (when applicable).

SELECTION CRITERIA/ADDITIONAL INFORMATION
Selection of students is based on grades on academic courses of relevance for the Master’s programme.

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. For details on tuition fees, see lunduniversity.lu.se.

About the Department of Biology
We have an outstanding competence in both education and research, covering a large number of biological disciplines with everything from molecular biology to large scale ecology. Several of our research groups are world-leading within their topic, which shows by the large number of international projects being coordinated from the department of Biology. Since our education is integrated with the research within the department you will, during your studies, have researchers as teachers and get into close contact with the ongoing projects. Our courses range from basic to Master’s level and we offer around 50 advanced level courses. We also have an extensive postgraduate programme.

About Lund University
Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 41,000 students and 7,500 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 Sweden’s most attractive study destination. 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 clear international profile, with partner universities in over 70 countries.

Funding of more than SEK 5 billion a year goes to research at eight faculties, which gives us one of Sweden’s strongest and broadest ranges of research activity. Over 30 of our research fields are world-leading, according to independent evaluations.

Two of the world’s leading materials research facilities are currently under construction in Lund: the MAX IV Laboratory, inaugurated in June 2016, is the leading synchrotron radiation facility in the world, and the European research facility ESS, which will house the world’s most powerful neutron source. The two facilities will be of decisive importance for future scientific and industrial development in both materials science and life science.

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

CONTACT
Programme webpage
www.lunduniversity.lu.se/microbiology
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