**MSc in Molecular Biology, Microbiology**

LUND UNIVERSITY, SWEDEN

- Master of Science in Molecular Biology
- 2 years, full-time, 120 ECTS credits
- Department of Biology
- Lund Campus
- Application deadline: January 2019
- Programme start: August 2019

**Programme overview**
The programme offers a highly competitive education in modern microbiology. It offers a broad foundation of knowledge and generally important skills in microbiology and molecular biology. Within the programme, you can specialise further according to your own preferences, towards for example medical microbiology, biotechnology, or cellular or molecular microbiology. Knowledge about microbes and their diversity, physiology and genetics, as well as modern tools to study them are important and highly relevant for work or research in molecular biology, infectious diseases and ecology, as well as for the exploration of microbes, for example to produce bulk and fine products, food and pharmaceuticals, and for use in environmental biotechnology.

**Special features of the programme:**
- Integration of basic research 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 Python (7.5 plus 7.5, optional), Master’s degree project (30, 45 or 60 credits). For the full list of electives, see http://wwwbiology.luse/master-programme-microbiology

Most courses are full-time studies, and you take 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 provides a point of entry into many directions, such as postgraduate academic research or a career in industry or the public sector. For microbiologists, there is a broad employment market, for example in biotechnology, pharmaceutical and food industries, as well as within various national and international authorities and organisations. Many students that graduate from the programme continue with PhD studies in biomedical research or other fields related to microbiology or molecular biology.

**Entry requirements and how to apply**

**ENTRY REQUIREMENTS**
A Bachelor’s degree of at least 180 credits or the equivalent, of which 120 credits must be in science/biomedicine/engineering, including:
- 45 credits in molecular biology comprising genetics, cell biology and microbiology
- 30 credits in chemistry comprising biochemistry

English Level 6 (equivalent to IELTS 6.5, TOEFL 90). See www.lunduniversity.lu.se for details on English proficiency levels.

“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, in anything 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 the great opportunity to learn new things every day.”

Manoj Kumar Gopala Krishnan from India
HOW TO APPLY

1. **Apply online:** Go to [www.lunduniversity.lu.se/microbiology](http://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](http://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](http://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 INFORMATION**

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

**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](http://www.lunduniversity.lu.se) for details on tuition fees.

**About the Department of Biology**

We have outstanding competence in education and research, covering a large number of biological disciplines from molecular biology to large-scale ecology. Several of our research groups are world-leading in their topic and a large number of international projects is coordinated by the department of Biology. As our education is integrated with the department’s research, you will have researchers as teachers and get involved in ongoing projects during your studies. Our courses range from basic to Master’s level. We offer around 50 advanced level courses as well as 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 40,000 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. 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 over 70 countries.

Lund University has an annual turnover of SEK 8 billion, two-thirds of which are 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, which was inaugurated in 2016, 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, destined to become a meeting place and a test environment for research, education and entrepreneurship.

Learn more at [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se)

Ask questions and follow news at [facebook.com/lunduniversity](http://facebook.com/lunduniversity)

**CONTACT**

Programme webpage
[www.lunduniversity.lu.se/microbiology](http://www.lunduniversity.lu.se/microbiology)

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