**Programme overview**
Understanding proteins is central to understanding and solving many medical, environmental and biochemistry-related problems on the molecular level. This master's programme in biochemistry explores the molecular structures and functional mechanisms of a large number of proteins, to provide a toolbox of methods for future use in protein and life sciences. Graduates from the programme will master methods of cloning, expression and purification of proteins, as well as a number of specialised techniques for protein analysis and structure determination, such as mass spectrometry and X-ray crystallography. They will also be able to understand and use primary scientific publications, and have the ability to independently plan, carry out and critically evaluate experiments.

In the first year, students follow advanced courses in biochemistry, protein chemistry and molecular biophysics. In the second year, they choose Master's degree project or projects in the fields mentioned above, which can be carried out at the University or in a company with a relevant research profile.

**Programme modules/courses**

**COURSES AND NUMBER OF CREDITS:** The recommended structure for the programme includes the following courses: Experimental protein chemistry (15 ECTS), Structural biochemistry (15 ECTS), Advanced biochemistry (15 ECTS) and a master's degree project (30, 45 or 60 ECTS).

**COMPULSORY COURSES:** Advanced level courses in chemistry comprising 30 ECTS credits, of which 15 ECTS should be in the fields of biochemistry or molecular biophysics, and a Master's degree project comprising at least 30 credits.

**Career prospects**
Graduates from the programme are highly skilled in conducting research and development and are well prepared both for work in the fields of life science, biochemistry and protein science within many sectors of academia and industry. The programme also provides a solid grounding for PhD studies. The courses are taught by teachers that are also world-leading researchers, providing valuable contacts for future employment. Previous graduates from our master's programmes in chemistry are in high demand. About half of the students graduating from the programme continue with a PhD-degree, while the rest start working in industry, both in the local region and internationally. Examples of positions held by graduates of the previous master's programme in biochemistry include: process technician at Pfizer (Grange castle, Ireland), microbiologist at Synlab analytics and services Sweden AB (Linköping, Sweden) and research assistant at Humboldt University (Berlin, Germany).

**Entry requirements and how to apply**

**ENTRY REQUIREMENTS**
A Bachelor's degree of at least 180 credits or the equivalent, including at least 90 credits in chemistry, of which at least 15 credits must be in biochemistry. 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/chemistry-biochemistry](http://www.lunduniversity.lu.se/chemistry-biochemistry).
   Click on “Apply” and follow the instructions for the online application.

"I think it’s a really good programme because you can select which kind of chemistry you’re interested in and take courses about that. I really like the courses here, and the fact that you can pick your courses yourself. I also like the fact that classes are really small – it feels really personal. You often work as a team in the classes. The programme allows for a really good balance between studying and having a personal life as well, which is great.”

Floriane Baussière from Switzerland
application at the Swedish national application website www.universityadmissions.se. Rank the chosen programmes in order of preference.

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.

3. Pay the application fee (when applicable).

SELECTION CRITERIA/ADDITIONAL INFORMATION
The selection will be based on grades awarded for previous academic courses in science, engineering and mathematics.

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 Department of Chemistry
The Department of Chemistry at Lund University provides world-class education and research within a wide area of chemistry. The Department of Chemistry is situated at Kemicentrum, Scandinavia’s largest center for research and education in chemistry. It is a unique research environment close to several major research centers, research parks and industries. Our education is closely integrated with the department’s research and all our students will have the opportunity to be involved in ongoing research projects during their studies.

The Department of Chemistry has a unique strength in undergraduate and postgraduate education in all areas of chemistry, as we belong to both the Faculty of Science and the Faculty of Engineering (LTH). The student services and support at the department is well-known and much appreciated by our students.

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 more than 8 000 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 degree programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. Because of its wide disciplinary range, interdisciplinary collaborations and engagement with wider society, Lund University is particularly well equipped to meet complex societal challenges. With partner universities in around 70 countries, the University’s profile is distinctly international.

Lund University has an annual turnover of more than EUR 830 million, of which two-thirds go to research in our nine faculties, enabling us to offer one of the strongest and broadest ranges of research in Scandinavia.

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 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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