Master Programme in Applied Biotechnology
2017/2018

The Master Programme in Applied Biotechnology is carefully designed for ambitious future professionals, who wish to specialise in the field of biotechnology and at the same time, would like to gain exposure in project management and entrepreneurship. The unique curriculum allows students to choose between academia and industry for their future career. You will meet both Swedish and international students and teachers in this programme, which will help you to build up a valuable network during and after your studies.

Located right in the strongest biotechnology cluster in Sweden, Uppsala has been a centre for pioneering and high quality biotechnological research for many decades. Uppsala houses a great number of small and large biotech companies. Collaborations between Uppsala University, biotech companies, the University hospital and national food and medicine authorities generate a stimulating educational environment. Thus, Uppsala University is the premium choice for your biotechnology studies.

ABOUT THE PROGRAMME
The Master Programme in Applied Biotechnology has an interdisciplinary character and strong connections to biotechnology industry.

As a student of the programme, you will gain theoretical as well as hands-on knowledge in the areas of molecular biology, structural biology and biotechnology. Furthermore, you can extend your studies in the areas of protein engineering, synthetic biology and molecular biotechnology for renewable energy. Thanks to the courses in project management, marketing and entrepreneurship, you will also gain insight into business management and learn how projects are planned and carried out in the biotechnology industry. One important element of the Master's programme is the Master's thesis, which allows the students to specialise in their area of interest and can be conducted in both academia and industry.

DEGREE
The programme leads to a Master of Science (120 credits) with Applied Biotechnology as the main field of study.

INSTRUCTION
Instruction is closely related to current research, and a majority of the tutors in the programme are researchers with substantial specialist knowledge. Through our close contact with the industry, you will also meet people with experience from
After an advanced level introductory course called ‘Trends in Molecular Biology and Biotechnology’, all students admitted to the programme study the same courses during the first year. These include both in-depth studies of ‘the structure and function of biomolecules’ and industry-related courses such as ‘project management and entrepreneurship’. The first year ends with a ‘biotechnology project’ during which the theoretical knowledge acquired during the first year can be put into practice.

The programme offers a broad spectrum of optional courses with specialisation within molecular biology. These include courses in protein engineering, synthetic biology, bioinformatics analyses, molecular biotechnology for renewable energy, molecular infections biology, etc. The most important course in year two is the Master’s degree project, which is the first step to the research/industry world. You will complete a degree project of 30 or 45 credits in a biotech company, government agency or public authority, or a research group at the university.

See detailed outline for courses within the programme.

The biotechnical industry is advancing across the whole world, not least in Sweden and Uppsala. The labour market is expected to grow over the coming years.

Uppsala University has an excellent reputation, and a Master’s degree in Applied Biotechnology from Uppsala University will provide you with an internationally recognised education that opens doors to graduate studies or a career in the biotechnical industry, in Sweden and abroad.

Depending on your chosen specialisation in the second year, you may work with research and development in, for example: protein-based pharmaceuticals, method development, diagnostic tools, or with biomaterials in various biotechnical fields.

You will be well prepared to work with product development in a biotechnology company or with research and development at an academic department in Sweden or abroad. You will also have an excellent basis for pursuing academic research through PhD studies.
MASTER PROGRAMME IN APPLIED BIOTECHNOLOGY

120 credits

Autumn 2017 100% Campus

Location: Uppsala

Application Deadline: 2016-01-15

Enrolment Code: UU-M1120

Language of Instruction: English

Requirements:

Academic requirements
A Bachelor’s degree, equivalent to a Swedish Kandidatexamen, from an internationally recognised university. The main field of study must be molecular biology, biology, biochemistry, bioinformatics, biotechnology, chemistry, medical technology/informatics, pharmacy or biophysics.

Also required is:

- knowledge and practical experience of laboratory experiments in biology, and molecular biology: cell biology, molecular biology and molecular genetics corresponding to approximately 20 weeks of full-time studies (30 credits);
- knowledge and practical experience of laboratory experiments in chemistry: general chemistry, organic chemistry and biochemistry corresponding to approximately 20 weeks full-time studies (30 credits);
- knowledge of mathematics: algebra and analysis corresponding to approximately 10 weeks of full-time studies (15 credits);
- and knowledge of computer science: good proficiency in use of computer software for word and simple calculations.

Language requirements
All applicants need to verify English language proficiency. This is normally attested by an internationally recognised test such as TOEFL or IELTS with the following minimum scores:

- IELTS: an overall mark of 6.5 and no section below 5.5
- TOEFL: Paper-based: Score of 4.5 (scale 1–6) in written test and a total score of 575. Internet-based: Score of 20 (scale 0–30) in written test and a total score of 90
- Cambridge: CAE, CPE

Exemptions for students from certain countries.

Selection: Students are selected based on:

- a total appraisal of quantity and quality of previous university studies; and
- a statement of purpose (1 page).

Fees: If you are not a citizen of a European Union (EU) or European Economic Area (EEA) country, or Switzerland, you are required to pay application and tuition fees. Read more about fees.

Application Fee: SEK 900

Tuition fee, first semester: SEK 72500

Tuition fee, total: SEK 290000
For programme-specific information, please contact study counsellor: Suparna Sanyal suparna.sanyal@icm.uu.se
Telephone: +46 18 471 42 20

Questions concerning admission: Katarina Kiviniemi Birgersson katarina.kiviniemi@ibg.uu.se
Fax: +46 18 471 48 35

For general information about Master’s studies at Uppsala University, please send an email to: masterprogrammes@uu.se