LUNDBECK LUMSÅS STUDENT PROGRAMME

Make your mark on the future of medicine
At Lundbeck Lumsås, you have the opportunity to add practical experience to your curriculum and to become acquainted with the pharmaceutical industry – an industry with an impressive foothold in Denmark, employing tens of thousands of highly skilled people.

We offer Bachelor’s, Master’s and PhD students a variety of exciting collaboration opportunities to conduct thesis research within the natural sciences – in particular within organic chemistry, chemical engineering, analytics and chemometrics.

The majority of projects are linked to our transition from batch to continuous processing, which is an important part of our ambition to become the best supply chain in the pharmaceutical industry.

Each project is drawn up individually together with you and your university supervisor, and the practical work is either conducted on-site at our modern and well-equipped development facilities or at your university.

To ensure you make the most of your time with us, a Lundbeck specialist will be assigned as your supervisor and you will work alongside experienced professionals on problems deriving from the real world. As a result, students often find their efforts and suggestions being industrially utilised afterwards.

Write your thesis at Lundbeck and join us in our efforts to stay among the best in the industry.
**PROJECT OPPORTUNITIES**

*Developing continuous processes and process equipment is a multi-disciplinary task where you can apply and refine your expertise while developing skills in the fields of chemistry, engineering and analytics. A typical project combines the following:*

**CHEMISTRY**
Analyse chemical reactions, their kinetics or other characteristics of batch and continuous mode in the laboratory. Study how the chemical reaction benefits from flow chemistry and how this translates into higher turnover, purity and safety. Examine the unit operations required for working-up the reaction mass.

**ENGINEERING**
Set-up a micro-scale flow unit based on insights gained from the chemistry, and study the process and its behaviour in continuous mode. Analyse and observe physical and chemical phenomena to generate knowledge and ultimately design a pilotscale continuous flow reactor system.

**ANALYTICS**
Study reactions and process of characteristics using various on-line analytical methodologies. And develop mathematical models to translate signals into real-time data to be used for process development, scale-up and industrial surveillance, and control strategies.
OUR STUDENT PROGRAMME IN NUMBERS

From 2010 to 2015, our students completed

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<th>10</th>
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<th>13</th>
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<tbody>
<tr>
<td>B.Sc. projects</td>
<td>M.Sc. projects</td>
<td>Ph.D. projects</td>
<td>Peer-reviewed articles</td>
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YOUR WAY FORWARD

If our program feels right for you or you are curious to know more about it, please do not hesitate to contact us. Our student advisors would be happy to answer your questions.

We collaborate closely with the Technical University of Denmark and the University of Copenhagen. If you are enrolled at either of the two, you may also contact:

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Lundbeck is a global pharmaceutical company highly committed to improving the quality of life for people living with brain diseases. For this purpose, Lundbeck is engaged in the research, development, production, marketing and sale of pharmaceuticals across the world. The company's products are targeted at diseases such as depression and anxiety, psychotic disorders, epilepsy and Huntington's, Alzheimer's and Parkinson's diseases.

Our site in Lumsås constitutes Lundbeck's leading centre for process development and production of active pharmaceutical ingredients. It is home to the development and manufacturing of our globally successful products Cipramil® and Cipralex® as well as our novel medications Brintellix® and Selincro®.

The site consists of five synthesis units, a quality control laboratory, R&D pilot plant facilities, development laboratories, warehouses and office buildings and is the workplace of approx. 180 highly skilled employees including operators, laboratory technicians, chemists, chemical engineers and quality control specialists.
"At Lundbeck, you are taken seriously from the very beginning and skillful colleagues are ready to assist you throughout the project."

Jesper T. Daugbjerg

"My ideal Master’s thesis includes hands-on experience, a real world problem and motivated and engaging supervisors. So far my expectations have been greatly exceeded."

Cathryn Bordenave

"Every time I come to Lumsås, I have the opportunity to stay at a nice summerhouse on an undisturbed plot not far from a stunning beach. The most perfect scenario to conduct research activities!"

Maria Francisca Dias Folque de Gouveia