



Novo Nordisk A/S - Kalundborg

Internships for Absalon Engineer
students, Spring 2023



Are you passionate about turning your theoretical knowledge into practice?

Would you like to work with processes turning science into real life-changing medicines for millions of patients?

Work as an Engineer at Novo Nordisk

Novo Nordisk is the world leader in diabetes care and has a leading position within hemophilia, growth disorders and obesity. To continue our success, we need to attract the very best talent.

As a student in Novo Nordisk, you get the opportunity to learn more about the pharmaceutical industry, our business areas and product portfolio and our management framework. You will have the chance to put your theoretical knowledge into practice. At the same time, you gain industry experience and build an invaluable network of talented colleagues across the organization.

An internship is a learning opportunity, and you will take part in department activities (daily tasks, meetings, seminars etc.) and have focus on personal and professional development through on-the-job learning and formal training for interns

About Novo Nordisk

At Novo Nordisk, we are driving change to defeat diabetes and other serious chronic diseases.

Novo Nordisk is a global healthcare company with more than 95 years of innovation and leadership in diabetes care. This heritage has given us experience and capabilities that enable us to help people defeat other serious chronic diseases: hemophilia, growth disorders and obesity.

Headquartered in Denmark, Novo Nordisk employs approximately 43,000 people in 80 countries and markets its products in more than 170 countries.

Novo Nordisk Kalundborg

Become a part of Novo Nordisk Manufacturing in Kalundborg and get a developing career among the most talented people in a successful company. Together, we make a real difference every day for more than 35 million people living with diabetes and other chronic diseases.

We have 50 years of expertise in biotechnological production at Novo Nordisk in Kalundborg. Generations of employees have developed their professional qualifications, personal skills and careers at Novo Nordisk and have helped develop the production facility to become the largest insulin-producing facility in the world.

Today, our 3,500 employees produce half of the world's insulin and a number of biopharmaceutical products. Furthermore, our finished product sections assemble and pack diabetes and biopharmaceutical products.

You will soon sense why Novo Nordisk Kalundborg is a highly unique place and why we are passionate about working here. You will be met with trust and responsibility by welcoming and dedicated colleagues. Novo Nordisk Kalundborg is a workplace where involvement, development and multi disciplinarity are in focus.

Interested in a life-changing career?

Read more about the opportunities at Novo Nordisk Kalundborg at novonordisk.com/kalundborg-careers

Interested in a life-changing career?

An internship at Novo Nordisk manufacturing could be your starting point.

Below, you will find all open internship positions targeted at students from the Bachelor Program of Engineering.

Program details

- The Internships are located in Novo Nordisk manufacturing in Kalundborg including three business areas PS Active Pharmaceutical Ingredients, PS Biotech & Rare Disease and PS Injectable Finished Products.
- You must be enrolled in the Bachelor program of Engineering in Biotechnology or Machin technology (during the **whole duration** of the internship)
- Work hours are 37 hours a week
- Monthly salary is DKK 12,000 + monthly pension (10% company paid and 5% self-paid)
- All Internships are for the period **February – June, 2023**.

Application process

Deadline for applying for Internships in this catalogue is **October 12, 2022**.

Job interview will be held **October 26, 2022**.

Feedback to all candidates before the **November 10, 2022**.

To Apply for internships in this Catalogue

1. Please submit **one motivated application** and CV to:

<https://career2.successfactors.eu/sfcareer/jobreqcareerpvt?jobId=254725&company=novonordisk&st=6662C6D321175DA46FC611B61C401F50896ADFOE>

2. In the application please describe:
State 1-3 internships from this catalogue you are most interested in and explain why
3. Attach relevant documents from your current and former education
4. Attach documentation of relevant work experience
5. You are welcome to attach a photo.

(Non-EU candidates are not allowed to start working before the work permit has been issued).

Questions or further information, please contact
StudentsNNKalundborg@novonordisk.com

INTERNSHIP NO. 1

Insulin Manufacturing II, Fermentation Process Support. Dept. 002.03

<p>Primary tasks</p> <ul style="list-style-type: none">• Participate as part of a support team – supporting our running production.• Learn about the different types of process response and the different types of tasks in a support team• Learning one on one with the engineers in the department• Look into process data on live screens• Data review and define and scope minor projects or optimizations• Run minor projects and optimizations – individually or as a part of larger projects• Implementation of best practice• Drive problem-solving	<p>Department/Team</p> <ul style="list-style-type: none">• Insulin Production II – Fermentation Support• The department consists of more than 120 employees in production, maintenance and support teams. <p>Main tasks of the team</p> <ul style="list-style-type: none">• Responsible for fermentation of insulin.• Daily, visible, proactive support for production by participation in board meetings, handover meetings and shop floor presence• Systematic problem solving and continuous improvements in production
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INTERNSHIP NO. 2 + 3

Purification Plant V, Operation & Support. Dept. 7671

<p>Primary tasks</p> <ul style="list-style-type: none">• Participate as part of a project group – supporting our overall project objectives of reducing manual operations related to both production related activities but also handling of product, raw materials etc.• Participate in/or support design of flows through the process steps included in API purification processes and automation systems throughout a complex value chain.• Data review, define and scope minor projects or optimizations to our current design.• Research and identify technology suitable for process optimization or automation.• Support or even run minor projects and optimizations• Participate in and support vendor visits and evaluations.	<p>Department/Team</p> <ul style="list-style-type: none">• API PPV Operations & Support <p>PPV Operations and Support consist of 5 teams with a total more than 95 dedicated, skilled and professional employees working on Novo Nordisk's factory of the future – the largest and most exciting project in Novo Nordisk history.</p> <p>Main tasks</p> <p>Establish new organisation and make sure it is ready for operations along with implementing all systems and training to run the new facility</p>
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INTERNSHIP NO. 4

Injectable Finished Products. Dept. 7876

Primary tasks	Department/Team
<p>You will play a role in defining and implementing manufacturing intelligence initiatives in our packaging production, including elements from Industry 4.0.</p> <p>How to transport and install high technology production lines from the suppliers and install them in Injectable Finished Products in Kalundborg. We will align the project more in details together with the student.</p> <p>You will be part of our journey to deliver manufacturing excellence and how to use the technology of our machines and production processes for reliable deliveries.</p>	<p>We are responsible for the assembly and packaging of our product devices. While we continually improve and update our equipment, we are also a launch site with responsibility for implementing and validating new products and production equipment. Finally, we are deeply involved in capacity expansions and are currently in the early stages of the project to build completely new assembly and packaging lines.</p> <p>You will gain knowledge in aspects of technology and solution development, and work with stakeholders from all over the world. At Novo Nordisk, we strive to create a workplace where everyone can contribute with their skills.</p>

INTERNSHIP NO. 5

Insulin Manufacturing II, QC Lab. Dept. 273

Primary tasks	Department/Team
<p>The primary task for the intern will be to prepare for digitalisation of our production of media in our classified area. At the moment, we have a paper-based production where we manually transfer data to our IT system. We would like to digitalise the process, ensuring that all data is transferred automatically. The task will include working with the operators, to understand the process, to investigate possible IT systems for digitalisation, which can work with the IT systems we already use, and to get an overview of steps needed to go paperless.</p>	<p>The team Substrate and medielab is located in dept. 273 IM2QC lab.</p> <p>We are a small team with 9 Operators, 3 Supporters, and Associate Manager. We produce growth media, buffers, reagents, calibration solutions for laboratory use and production use.</p> <p>In the team we have several large equipment's and facilities we use daily as Autoclaves, water treatment facilities, steam generator, utensil washers, and different small equipment.</p> <p>Our work at the moment consist of many paper based and manual processes.</p>

INTERNSHIP NO. 6

PS Biotech & Rare Disease, Filling Line. Dept. 6609.08

Primary tasks	Department/Team
<p>Project based work with focus on optimizing batch change over processes for an aseptic filling line. Involvement in day to day work with problem solving and optimizations of work processes, equipment and tools.</p>	<p>Filling line 12 BCO improvement team is a small dedicated teams with the specific focus of batch change over operations.</p>

INTERNSHIP NO. 7

PS API, Metrology & Calibration. Dept. 046

Primary tasks	Department/Team
<p>You can expect an inspiring atmosphere with high technical knowledge. We expect you to be have a strong interest in new technologies, digitalization, IOT and an open mind to gain new knowledge. You can help us in connecting metrology with new technology, smart equipment and digital solutions.</p> <p>We offer you the opportunity to be part of a team with high competences within our field and look forward to use your passion for new technology to further develop our departments ability to meet the demands of tomorrow.</p>	<p>In Metrology & Calibration we work with a lot of amazing equipment, which has a huge impact on the quality of our products.</p> <p>We develop methods for calibrations, training of calibration technicians and test new technologies in regards of calibration. We also have hands on calibration in our own calibration laboratory, where we calibrate working standard to be used in our factory facilities.</p>

INTERNSHIP NO. 8+9

PS API, Insulin Manufacturing II, CQV. Dept. 7153

Primary tasks for internship	Department/Team
<p>Equipment start-up and test (Commissioning):</p> <ol style="list-style-type: none">1. Coordination of start-up dependencies2. Alignment between contractors, engineering partner and Novo Nordisk <p>Participation in equipment start-up, test, documentation, taking into use and handover</p>	<p>The BDAF project is establishing a new facility within Novo Nordisk for the project of API intermediate.</p> <p>The CQV (Commissioning, qualification, validation) team is responsible for equipment start-up and handover handling cross-disciplinary interfaces, coordination of dependencies and on site activities.</p>

