

Engineering, Innovation and Business

**Bachelor of Science in Engineering/
Master of Science in Engineering**



sdu.dk/eng_sonderborg

As an Engineering, Innovation and Business engineer you will acquire competencies within three different areas: technology, innovation and business development. You will learn how to develop smart products and apply digital production technologies for the factory of the future. In parallel with the technical development, you learn to assess market opportunities, develop a business case and manage innovation projects.

This education enables you to work as an engineer or project manager in many different organisations where you utilise the combination of your technical as well as innovation and business related knowledge.

Your studies in Sønderborg

- Taught in English
- Competences for global markets
- Projects with companies
- More than 50% international students
- Scandinavian lifestyle



Your bachelor programme

You will learn in a personal environment, in small study groups and with our state-of-the-art equipment. An excellent student-to-faculty ratio enables you to gain individual experience and success in your studies.

Our international degree programme Engineering, Innovation and Business is taught entirely in English. In the programme, you will acquire language and social skills for a job in global companies and for worldwide cooperation with customers.

After completing your studies, you will hold a recognised Bachelor of Science in Engineering degree (6 semesters) and qualify for a master's degree in Denmark, Germany or worldwide.

Real solutions for real projects

At SDU Sønderborg, there is a long tradition of cooperation between students and exciting high-tech companies.

Globally active businesses from the Danish-German region will enable you to discover and tackle real-life tasks in industry as part of your semester projects.

Learning in projects will be at the heart of your study programme. Each semester, you will get a chance to apply the theory you've learned in real-life projects. This way you will gain the skills of project management, team building and creative problem solving.

In addition to the compulsory course modules and the projects you will have a choice of elective modules.

Your master programme

The master programme is structured around three main pillars: Technology, Innovation and Business development.

Technology

The *technology* focuses on the development and application of new digital technologies related to smart products and Industry 4.0. Can you help develop the factory of the future?

You work with state-of the art technologies such as virtual and augmented reality to simulate prototyping processes or production set-ups. As an Engineering, Innovation and Business engineer, you will help companies during the transformation process of adjusting to the era of digitisation. You learn how to develop smart products for businesses as well as introduce new solutions for industrial applications.

Innovation

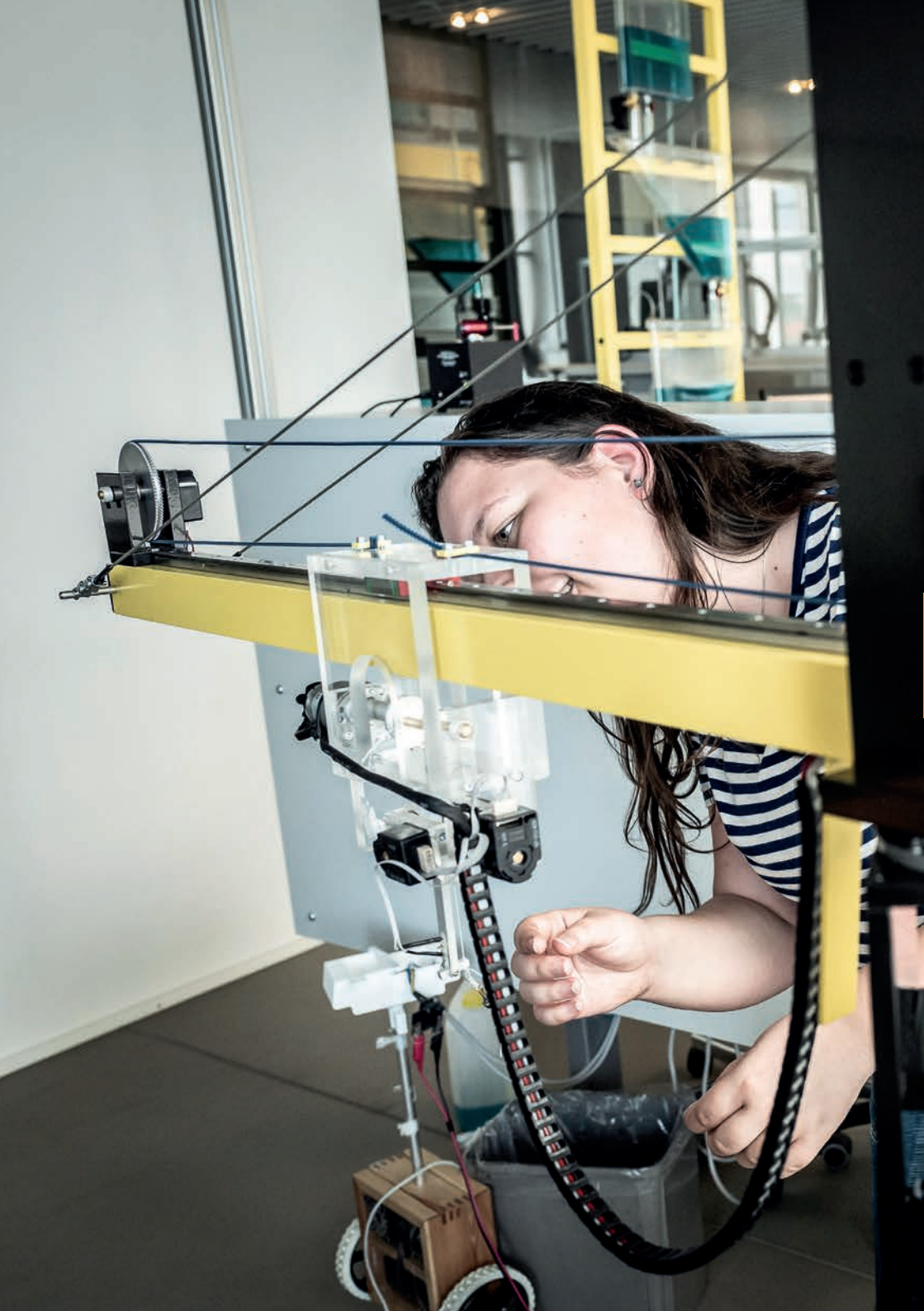
The *innovation* part gives you competencies in understanding the innovation process from the early ideation phase to the final commercialisation of a product or and innovation project. You get insights into how to manage projects and product development processes, and you experience your role as the bridge-builder between the technical and the business departments in an organisation.

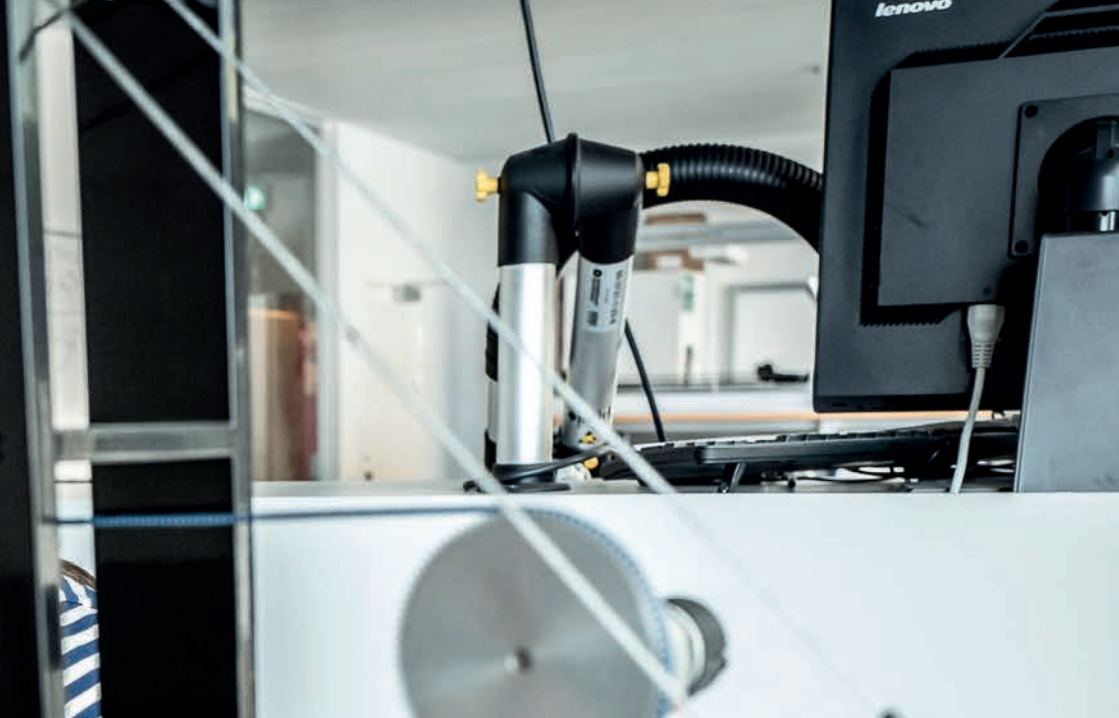
Business development

The *business development* part focuses on giving you the skills to evaluate opportunities and assess whether a business case is interesting. If you invest in new technologies, will it pay off? You get knowledge on business models, business plan development and financial key metrics to evaluate the business case.

No tuition fees

Citizens of the EU/EEA/Switzerland are exempted from semester and tuition fees.





SDU Sønderborg Engineering programmes

3,5 years

BEng in Electronics

BSc in Electronics

MSc in Electronics

BEng in Mechatronics

BSc in Mechatronics

MSc in Mechatronics

**BSc in Engineering,
Innovation and Business**

**MSc in Engineering,
Innovation and Business**

3 years

5 years

Your application



Entrance requirements for the Engineering, Innovation and Business bachelor

To be admitted to the Engineering, Innovation and Business bachelor programme, you need **a qualifying examination**.

Furthermore, you must meet the specific entry requirements:

- Mathematics on high level (Danish A-level)
- English on intermediate level (Danish B-level)
- And one of the following courses:
 - Physics - Danish B-level
 - Geoscience - Danish A-level

For more information, see the website: sdu.dk/bsc/innovation

You can apply online **from 1 February**. Your application must be submitted online by **15 March**.

You can submit your final grade certificates later.

If your application is successful, you will receive a confirmation of your place on the course by the end of July. The course programme starts on **1 September** with opening events.



Entrance requirements for the Engineering, Innovation and Business master

To be admitted to the Engineering, Innovation and Business master programme, you need:

A bachelor's degree in Engineering, Innovation and Business, Product Development and Innovation, Mechatronics or Interaction Design.

Other applicants with a similar bachelor's degree will be considered if their academic qualifications correspond with one of the above mentioned bachelor's degrees and may be accepted based on individual assessment.

For more information, see the website: sdu.dk/msc/innovation

You can apply online from **1 January**. Your application must be submitted online by **1 March**. Non-EU/EEA citizens must submit their application by **1 February**.

You can submit your final grade certificates later.

The city of Sønderborg is located in Southern Denmark on the banks of Flensburg Fjord and the Baltic Sea. The city is a perfect setting to try out the Scandinavian way of living, offering a combination of lively student environment and great quality of life. Forests, beaches and the sea provide for a wide range of leisure opportunities and an ideal balance of studies, relaxation and fun.

On Sønderborg campus, you will encounter students from all over the world. Over 50 % are international students, studying at three faculties. They make the campus a particularly open and inspiring place.

Living in Sønderborg

With your admission on the programme, you will get a guaranteed place in the halls of residence, so that you can concentrate on what really matters from the very start: getting on with your studies and making new friends!

In Engineering, Innovation and Business you will get thorough knowledge within, e.g.

1. Product innovation
2. Innovation management
3. Design and creativity
4. Mechatronics technology
5. Production and operations management
6. Sustainable products and businesses
7. Mathematics and physics

Life in Scandinavia



In Sønderborg, successful technology companies have been working with students for many years. Globally active companies from Denmark and Germany, such as Danfoss, Linak or LEGO have been investing in a new generation of engineers with great dedication and enthusiasm.

Bridges into professional life

You will have numerous opportunities to work together with businesses during your studies as part of semester projects, practical assignments, engineering internship or Bachelor thesis projects.

University provides you with a job database and organises regular events where you can get to know companies. This makes your first steps towards your exciting career so much steadier!

“The programme in English opens the door for me to study and work all over the world!”

Tamara from Flensburg studies at Sønderborg

Start your career





First job guarantee

Local companies from Southern Denmark and the University of Southern Denmark have joined forces to create a unique *first job guarantee* scheme that offers new graduates 6 months employment, if they have not already landed their first job.

The scheme goes into effect for students that start their BEng or MSc of Engineering degree at the Faculty of Engineering at SDU Sønderborg from September 2020.

However, to be eligible for the scheme, three mandatory requirements apply:

- You must collaborate with a company on a project during your studies
- You must complete your degree without delay
- You must acquire Danish language skills equivalent to level B1 on the CERF scale.

You will get in touch with local companies throughout your studies during, e.g., matchmaking events, business lunch and various projects.



Matchmaking event 2019

Campus Sønderborg: Study and live by the sea!

Questions and advice

Marianne Stenger is Head of Engineering, Innovation and Business.

Marianne will be happy to answer your questions concerning the course:

mas@mci.sdu.dk
T +45 6550 1207



Visit us at SDU in Sønderborg!

Visit us at the **Student for a day** event on Sønderborg campus. You will be greeted by engineering students. They will show you the university, technical facilities, project rooms and talk about student life on campus.

You will be able to sneak into lectures and receive personal course advice.

Just let us know the day when you would like to visit by sending an e-mail to: **Engineeringsonderborg@tek.sdu.dk**

Or meet us in February at the **Open Day** event. You will get information on all courses in English at SDU, plus exciting workshops and a city tour.

Further information and registration here: **www.sdu.dk/sto**