Come closer to success

in an exciting study program
at the Faculty of Technology.

Contact

We will be happy to help you!

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Our student advisory service

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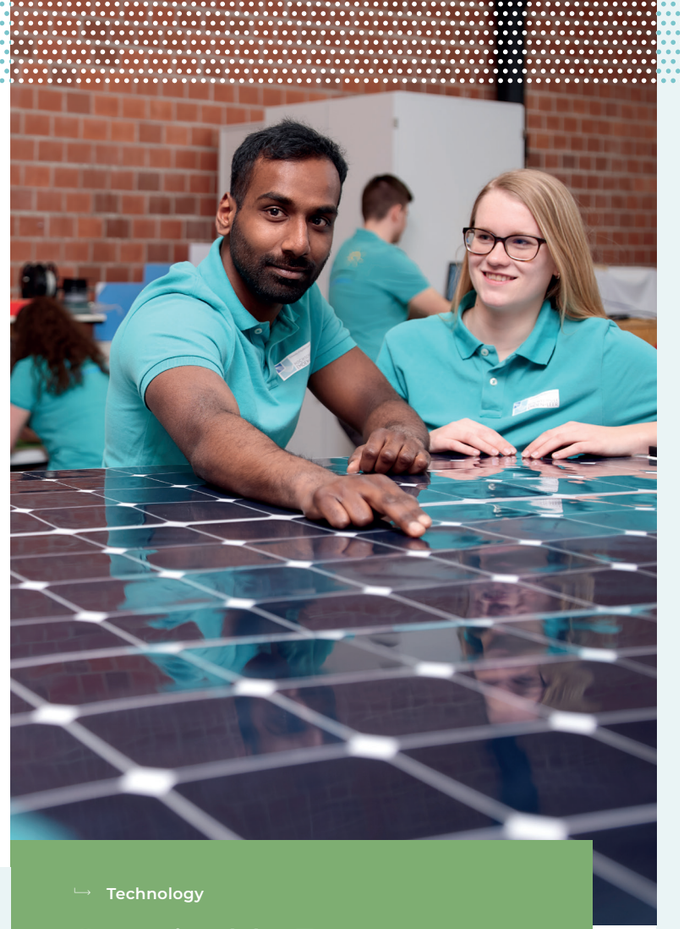
Interested in this degree program?
More information available at
» www.hs-emden-leer.de/en/sl/bses

or come and see us in Emden.
Visit the university and the laboratories,
and find out more in a personal meeting.

COME CLOSER TO SUCCESS. Status: 06.2021



→ **Technology**

Sustainable Energy Systems

Nachhaltige Energiesysteme

Bachelor of Engineering (B.Eng.)

Come closer. » www.hs-emden-leer.de/en

Your future career field

With this internationally oriented degree program, you will be very close to the topics of energy and sustainability, climate, and environmental protection; you will receive an education that will make you a specialist in the field of sustainable energy supply and the associated technology. Our graduates can look forward to diverse and promising career prospects in national and international organizations that actively promote the energy transition. Potential employers can be found in industry, consulting firms, planning and engineering offices, research institutes, public institutions, and non-governmental organizations (NGOs).

After graduating with a bachelor's degree, there is also the option of starting a master's program in Emden or at another university. Sustainability, climate, and environmental protection are of high societal and ecological importance and are the concerns of politics worldwide; experts in these fields are therefore in great demand on the labor market.

Your degree programm

Sustainable Energy Systems is an interdisciplinary, broad-based, practical and internationally oriented technical degree program that leads to a Bachelor of Engineering (B.Eng.) after seven semesters. The degree program prepares you for highly topical and future-oriented careers, for example, in the fields of climate protection and sustainability, renewable energies as well as energy efficiency and energy management.
In addition to lectures, exercises, and laboratory work, the degree program includes numerous practice-oriented project assignments in which knowledge from the lectures is deepened in small groups. The first three semesters are dedicated to the fundamentals of science and engineering and are taught mainly in German.

In the last semesters, in which the language of instruction is mainly English, the specific content on sustainability, renewable energies, energy efficiency, and environmental technology predominates. Optionally, the fifth or sixth semester can be completed at one of our partner universities abroad. For the practical phase and the bachelor's thesis, which take place in a company or research institute, you can freely choose German or English.

Your study location Emden: awarded for sustainability

Wind energy, photovoltaic, solar thermal and biogas plants: sustainable energy production in the region is unmistakable. Renowned manufacturers and planning offices are located here, as are numerous companies in the energy industry. The northwest plays a pioneering role in the development of new technologies and innovative energy efficiency concepts.

The municipalities are also aware of the importance of sustainable energy production: in 2004, Emden was the first city in Lower Saxony to receive the European Energy Award. The city also received the German Solar Prize for the exemplary promotion of renewable energies in East Frisia in 2005; in 2008, the prize went to an Emden-based company.

The city of Emden wants even more, though: the "100 % Climate Protection Master Plan" pursues the goal of meeting the entire energy demand for electricity, heat, and mobility from renewable energies by 2050.

The University of Applied Sciences Emden/Leer is also strongly committed to spreading green technologies within the region: in 2018, it was awarded the 2nd prize of the national Fairtrade Award in the civil society category for its commitment to the topic of sustainability and social responsibility.

So, if you are interested in a future-proof energy supply, climate protection, and sustainability, the Sustainable Energy Systems degree program in Emden is the right choice for you and very close to the energy industry of tomorrow.

Course of studies

1st - 3rd semesters	Basic studies: Natural science and engineering fundamentals with a focus on energy and sustainability topics
4th semester	Wind energy, solar thermal energy, biomass, sustainable production, energy efficiency
5th semester	Simulation of energy systems, energy storage, environmental process engineering
6th semester	Energy and environment, sustainable energy project
7th semester	Practical phase and bachelor's thesis

Admission requirements

- General or subject-related university entrance qualification or entrance qualification for a university of applied sciences

or

- depending on previous vocational training, a further special qualification (e.g., master's examination)

Current information on enrollment can be found at
» www.hs-emden-leer.de/en/sl/firstsemester

Start of studies

Admission takes place in the **winter semester.**

Information for first-semester students is available at
» www.hs-emden-leer.de/en/sl/enrollment

Degree

Upon successful completion of the program, you will receive a Bachelor of Engineering (B.Eng.). This internationally recognized academic title is the prerequisite for entry into a master's program and opens up a wide range of career opportunities for you.

Note: No special English language skills are required (normal school English is sufficient).

Foreign students must prove German language skills at the DaF-B2 level.