At the University of Paderborn, we conduct internationally recognized, cutting-edge research. This is your chance! We’ll prepare you for challenging positions where you will take responsibility.

1. “Try before you buy”: during the pupils’ practicum for prospective engineers, you can test out both us and yourself to see if it’s a good fit.

2. Female students are welcome! The University of Paderborn has set a goal of increasing the number of female students in the engineering disciplines further.

3. Thanks to our German-wide (and international!) system “eduroam”, students from the University of Paderborn can use the internet for surfing or research for free on campus in Paderborn, at any major German university, or any participating university in the world.

4. The student representatives (German: Fachschaft) are available to support you in any issue with both advice and assistance.

5. The UPB cooperates with universities in many countries around the world. Through these cooperations, students have a variety of options for spending a semester or a year studying abroad.

6. In addition, departments and working groups offer interesting, course-related excursions and visits to interesting companies.

7. Continuous cooperation and collaboration with companies also provides students with opportunities for practica and internships.

The chemical engineering program consists of the one hand of required modules in order to acquire a broad foundation of knowledge and skills in engineering and the natural sciences. On the other hand there are elective modules to design your individual profile.

The programs is rounded off by learning of soft skills, e.g. languages.

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Program Description

Foundational Studies of the Bachelor’s Program

- Mathematics/Modelling
- Programming
- Engineering Mechanics/Material Science
- Engineering Design
- Electronics/Physics
- Thermodynamics
- Fluid Mechanics
- Thermal and Material Conduction
- General, Anorganic and Organic Chemistry
- Scientific and procedural Practica
- Control Engineering
- Physical Chemistry
- Chemical, Thermal and Mechanical Process Technology

In the Bachelor's program you will acquire specific knowledge. These are your options for elective modules:

- 1 elective module
- Project seminar
- Bachelor's thesis

Important Courses of the Master's Program

- Numerical Analysis
- Chemical, Thermal and Mechanical Process engineering 2
- Physical Chemistry 2
- 5 elective modules
- Industrial internship
- Student research project
- Master's thesis

In the Master’s program you can choose a combination of elective modules for your specialization:

- Nanotechnology
- Polymers Technology
- Process technology

The programs are rounded off by learning of soft skills, e.g. languages.
A chemical engineer is highly valued in many branches due to their broad knowledge base and education. Their fields of activity range from heavy industry to nanotechnology. Some examples include:

- Chemical Equipment Manufacturing
- Chemical Industry
- Petrochemical and Energy Sector
- Polymers and Processing Technology

These are topics that will determine your professional profile. Well-established, forward-thinking, and innovative family businesses have their headquarters here. With the federally recognized cluster "Intelligent Technical Systems", OWL has firmly established itself, both domestically and internationally, as one of the top regions in Germany.