

Requirements for Admission

For the admission to the BSc Course of Studies, a specific or general university acceptance or equivalent qualification is required. For German students, basic knowledge of the English language is recommended. Students from abroad must submit a German Language Certificate (DSA) from an accredited institute.

The admission to the MSc Course of Studies requires a BSc degree in petroleum engineering from an accredited college or university. Students with other technical degrees or with a BSc degree in a similar discipline may also be accepted provided proof of the required basic knowledge in petroleum engineering is furnished. Clausthal University of Technology offers a one-month summer school to support students in acquiring this basic knowledge. Since the course of studies will be held entirely in English, adequate proficiency is required from all students. (English language certificate such as TOEFL (> 213), IELTS (> 6,5) or similar). Basic knowledge of the German language is recommended.

Clausthal University of Technology

CUT is a small university with some 3,000 students and 90 professors. Students at CUT enjoy a unique and international atmosphere. In contrast to large universities, students and teaching staff have been able to develop a good personal rapport. Often students have the opportunity to become members of research teams during their Master studies.

By German standards, the costs of living and accommodation in Clausthal are relatively low. Sufficient opportunities are available for housing on campus or privately. Because all distances are short, there usually is no need for a car or public transport. Almost all destinations are within walking or biking distance.

General courses, for instance, in English or German, are also offered.

Deadlines

Courses start in winter semester each year. Admission process starts March 15th. Deadline for application for admission is July 15th.

Applications

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Academic Advisors

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Bachelor/Master of Science Petroleum Engineering



Petroleum Engineering Opportunities and Perspectives

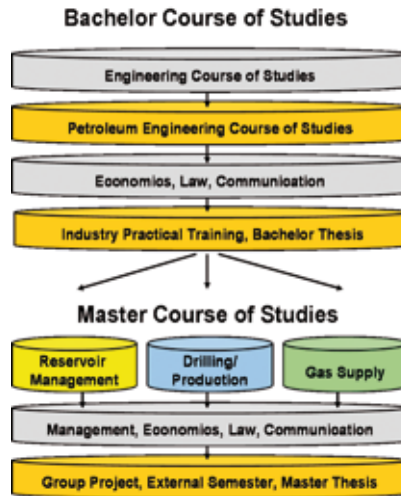
Petroleum Engineering is the field of knowledge including all aspects of oil and gas technology. It encompasses the description and evaluation of hydrocarbon reservoirs, their development by drilling wells, their economical production, processing in a marketable quality as well as their storage and distribution. Potential employers for petroleum engineers are the oil and gas industry, the supporting service industry, interest groups, universities, research institutes, and governmental bodies in Germany and worldwide.

The actual outlook for energy prices as well as the age distribution of employees in the petroleum industry indicates an increasing demand for young well educated students from universities in the years ahead. Since the number of students in this discipline is not sufficient at present, this demand cannot be satisfied. The increasing challenges to meet energy demand provide ample and long lasting opportunities for well educated petroleum engineering graduates.

Overview: Course of Studies in Petroleum Engineering

Clausthal University of Technology offers a six semester course of studies in petroleum engineering leading to a Bachelor of Science degree (BSc). The degree qualifies graduates to enter professional life and carry out tasks in the field of petroleum engineering. Students also may continue their education by entering a four semester, postgraduate course of studies leading to a Master of Science (MSc) degree. This course will provide specialised petroleum engineering knowledge as well as interdisciplinary competencies, such as international experience, team work, management and economics, etc. The MSc degree also provides the opportunity for further studies towards PhD.

The course of studies in petroleum engineering at Clausthal University of Technology is internationally accepted and is aligned with the qualifications identified by industry.



The education is conducted in cooperation with other universities (by tele-teaching) and incorporates experienced staff from industry (contract teachers); this guarantees the immediate presentation of practical experience along with the academic know-how. Studies are of modular structure; modules include subjects of interlinked knowledge.

An industrial practical (in the BSc course of studies), a semester abroad and an interdisciplinary group project (in the MSc course of studies) provide the students with international and practical experience. A dual study program, carried out jointly with industry provides access to funding for qualified students.

Industrial Contacts

The following companies support the PE course of studies:



The Bachelor Course of Studies

The bachelor course of studies comprises six semesters or three years, and consists of 18 modules, including an 8-week industrial practical. The teaching language is German. Examinations are held concurrent with the program. The program is completed with a Bachelor thesis. ECTS 180.

The course of studies is structured as follows:

- Basic studies (mathematics, engineering and geosciences)
- General studies (economics, law, communication)
- Special studies in petroleum engineering

Two areas of specialisation are offered:

- Petroleum Engineering
- Energy and Mineral Commodities Supply Technology

The Master Course of Studies

The master course of studies comprises four semesters, or two years, and consists of 11 modules. The teaching language is English. The examinations accompany the program of studies. A semester abroad at a partner university and an interdisciplinary group project are included. The studies will be completed by a Master thesis. ECTS 120.

The course of studies is structured as follows

- In-depth studies in petroleum engineering
- In-depth studies and acquisition of skills in management, economics and law
- interdisciplinary group project

Three areas of specialisation are offered:

- Reservoir Management
- Drilling and Production
- Gas Supply