Clausthal University of Technology

Clausthal University of Technology is an internationally renowned institution with a long, outstanding history in ingenuity and determination. Founded in 1775 as a royal college for the mining industry, the University has constantly expanded its educational programs. Throughout our history, we have consistently maintained a strong tradition in engineering and natural sciences, thereby bridging the gap between tradition and innovation. Students enjoy a unique way of studying in Clausthal: it is the personal and international atmosphere, and the practice-oriented education which make us distinctive.

Currently, research and education are focusing on the degree programs of Renewable Energies, Energy and Raw Materials, Natural and Materials Sciences, Economics, Computer Science, Mechanical Engineering and Process Engineering.

The CUT is a comparatively small university with about 5,000 students from all around the globe (30 % from abroad), who find the education here in Clausthal a unique, rewarding experience. In contrast to prevalent conditions in large universities, students and teaching staff have been able to develop a good personal rapport (faculty-to-student-ratio stands at 1:9). Professors and students work and research closely together, thus creating a more individual-based learning atmosphere and providing our students with the appropriate skills to enter the job market as professional and valuable assets in their respective fields. Due to the strong cooperative links to industry, students have the opportunity to be involved in scientific projects.

Contact
Institute of Mining
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Master of Science
Mining Engineering
Mining Engineering (M.Sc.)
The Master’s degree program offers students intensive study opportunities over a broad spectrum of fields in Mining Engineering. The students are not only skilled and equipped to face challenges in the industry, but also trained to develop and apply up-to-date scientific tools and techniques. The Master of Science in Mining Engineering aims at empowering students with management and communication skills in addition to technical knowledge.

Main Focus
As Mining Engineering comprises a wide spectrum in the mining and mineral industry for a sustainable extraction of minerals, processing and financial management of the available resources, the Master’s degree program at Clausthal University of Technology is designed to be geared towards these multidisciplinary requirements.

Numerous specialization topics are available, such as:
- Geostatistics and Mine Planning
- Underground and Open Pit Mining Technology
- Rock Mechanics and Drilling Technologies
- Mine Health and Safety
- Ventilation and Climatization
- Mineral Processing
- Mine Surveying and Geoinformation Systems
- Mining and Environment
- Mining and Finance

Institute of Mining
The Institute of Mining comprises of the following two Departments:

Department of Underground Mining Methods and Machinery
During the lectures an emphasis is put on Underground Mining Methods and Machinery as well as Mine Planning for the development and exploitation of underground deposits keeping Mine Health and Safety as well as Sustainability in a strong focus.

Department of Surface Mining and International Mining
It is led by Prof. Hossein Tudeshki. The main focus of studies in the department are: Deposit to Mining method correlation, Selection and Sizing of the Equipment, Computer-aided Mine Planning among others.

The Institute of Mining has strong ties with partners from industry and national and international academic institutions. The department collaborates with the World Heritage Mine of Rammelsberg, so that lectures have a practical approach.

International Co-operations
The Institute of Mining has a number of Co-operations with universities within Europe as well as throughout the world, e.g. with Pontificia Universidad Católica del Peru, University of Pretoria and Luleå University of Technology.

Occupational Profile
Mining Graduates carry out and administer research, consulting and planning activities in the field of Mining Engineering. Opportunities are open for Mining Engineering Graduates in the core Mining and Mining Machinery sector as well as fields related to it. Students have numerous opportunities during and after graduation to work internationally with the strong technical knowledge gained at Clausthal University of Technology.

Program Details
- Duration: 4 semester
- Language of instruction: English
- Option of a semester abroad

Studies start each year in the winter term (01.10. – 31.03.).

Application Requirements
- Bachelor of Science in Mining Engineering (recommended) or a related engineering degree (e.g. Petroleum engineering or Mechanical engineering)
- An English language certificate, such as TOEFL (minimum 79), IELTS (minimum 6.5)
- Basic knowledge of the German language is recommended, but not necessary
- See www.izc.tu-clausthal.de/en/ways-to-clausthal for further information regarding application

Application Deadlines
- April 1st

If a visa is needed, early application is strongly recommended.