WHY STUDYING “TECHNOLOGY AND APPLICATION OF INORGANIC ENGINEERING MATERIALS” AT THE TU BERGAKADEMIE FREIBERG?

- Strong link between theory and practice
- High degree of multidisciplinarity
- Learning by practice oriented doing (laboratories, practical courses, trainings, student assistant jobs within the research projects, link to industrials etc.)
- Real-time implementation of the research projects findings in teaching
- Effective supervision by excellent lecturers with high international reputation
- Small classes (about 20 students) with high degree of interactivity
- Best job prospects
- Opportunity for excellent students to continue with PhD study
- No tuition fees

TU BERGAKADEMIE FREIBERG

- Founded in 1765
- Campus university located in a charming medieval city with beautiful old architecture
- Many international study programs including exchange and double degree programs
- Small classes with excellent teaching quality and highly motivated lecturers
- Outstanding reputation for its teaching and research
- Among Top 10 German technical universities in accordance to research funding per professor
- Affordable living costs
- No tuition fees

APPLICATION

Submit your application and supporting documents well before the deadline. Fill in the application form on our website, http://tu-freiberg.de/international/application, and send the application portfolio with all required documents to Prof. Aneziris or Prof. Volkova.

The application portfolio should include:

- Filled Application Form
- Résumé
- Certified Copy of Academic Degree(s) Translated in English
- Certified Copy of Transcript(s) Translated in English
- Proof of English Language Skills (TOEFL or Certified equivalents)
- Motivation Letter for Joining the TAIEM Masters Program
- Self-addressed envelope

Application deadline:
April 30th for Non EU citizens (require visa) and July 15th for EU citizens (not require visa)

CONTACT

TU Bergakademie Freiberg
Institute of Ceramic, Glass and Construction Materials
Prof. Dr. Christos G. Aneziris
Agricola Str. 17
09599 Freiberg

TU Bergakademie Freiberg
Institute of Iron and Steel Technology
Prof. Dr. Olena Volkova
Leipziger Str. 34
09599 Freiberg

Editorial deadline: April 2018
Errors and omissions excepted
THE PROGRAMME

A minimum of 4 semesters (2 years) is required to complete the program. The program begins with core modules on metallic, ceramic and refractory materials, thermodynamics and mechanics of materials, plus trainings in particle technology and fluid dynamics. In the second and third semester there are more advanced modules and further skills training in technology and applications of materials and simulation of metallurgical processes. Furthermore, the students learn via laboratory and practical courses to apply the theoretical knowledge in real applications. The fourth semester is designated for the master thesis.

Duration: 4 semesters, (2 years), starting each October
Start: Winter semester
Language: English
Degree: Master of Science (M. Sc.)
Costs: No tuition fee
Course Language: English (we offer German language courses at all levels)

ADMISSION REQUIREMENTS

- BACHELOR’S DEGREE (or equivalent) in the field of Mechanical Engineering, Process Engineering, Environmental Engineering, Energy Engineering, Industrial Engineering, Materials Science and Engineering, Natural Sciences or familiar.
- PROOF OF ENGLISH LANGUAGE SKILLS: TOEFL scores above 79 for internet-based, 213 for computer-based, and 550 for paper-based tests or IELTS with at least 6.0 for overall score.

JOB OPPORTUNITIES

The TAIEM masters programme is tailored to gear the students up for the challenging tasks in the production and application-oriented industries such as iron and steel-making industry, metal processing industry, ceramic and refractory industry, recycling and extractive industry and etc. Furthermore, the TAIEM masters programme offers a sound foundation for an academic or research career at universities and research institutions.

STUDY CONCEPT

The M.Sc. in Technology and Application Inorganic Engineering Materials such as steel and ceramic is a comprehensive masters program offered by the oldest mining university in the world, the TU Bergakademie Freiberg.

TAIEM graduates will be able to:

- solve general and specific problems in the steel and ceramic producing industries
- select a suitable steel and ceramic for a specific application
- evaluate properties of steels and ceramics on several scales and estimate their behavior under real industrial conditions
- detect and solve problems relating to the technology and applications of steels and ceramics
- manage a technology-oriented research project

CURRICULUM

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