

The Faculty of Geosciences, Geotechnics and Mining at the TU Bergakademie Freiberg invites applications for a

**(W3) Professorship in „Geomechanics and Rock Mechanics/Rock Engineering“ –
position number: 30-E/2025**



with anticipated starting date October 1, 2026.

The applicant (m/f/d) should demonstrate outstanding academic expertise and practical experience in at least one of the following focus areas:

- **Geomechanics of rocks / rock masses in the above-ground and underground space** (e. g. mine openings, infrastructure projects, rock slopes etc. including dimensioning, stability assessment as well as support measures)
- **Numerical modelling of rock mechanical problems** (e. g. geo-hazards, mining and post-mining, underground storage of radioactive and toxic waste, storage of raw materials, geothermal energy, infrastructure projects)
- **Determination of rock mechanical parameters** on various scales using complex testing techniques (1-, 2- and 3-axial, HTM-coupled, static and dynamic)
- **Stress, deformation and damage behaviour of rocks / rock masses.**

The research area is integrated into several study programs of several faculties. It is expected that the research area is actively represented in teaching and research, in accordance with the further innovative and interdisciplinary development of the university profile as a resource focused university. The maintenance and further development of teaching and research activities in the relevant areas are essential.

The focal points **laboratory techniques** and **numerical modelling** should continue to represent the scientific core areas of the professorship. The inclusion of AI-based approaches in these areas is explicitly desired. It must be ensured that extensive supervising of academic qualification work – ranging from undergraduate project works to doctorates and habilitations – remains and is expanded.

We are looking for a personality with exceptional research and more independent teaching credentials in the above-mentioned specialisations, is highly motivated and has the necessary experience to lead an interdisciplinary and international team. The design of attractive courses is expected, also for adjacent disciplines. Very good knowledge of German and English language as well as the willingness to teach in German and English are required.

You fulfill the general requirements for appointment according to § 59 of the “Sächsisches Hochschulgesetz” (Higher Education Act of Saxony), dated May 31, 2023, in its currently valid and applicable version.

The prerequisites are a degree, the special qualification for relevant scientific work (usually proven by a doctorate), habilitation or habilitation-equivalent achievements as well as pedagogical aptitude and university didactic knowledge. Severely disabled or equivalent applicants (m/f/d) will be given preferential consideration in the event of equal suitability. For appropriate consideration, we ask that proof of the severe disability/equality be attached to the application documents. The TU Bergakademie Freiberg is a family-friendly and provides support in the provision of childcare facilities as well as in the placement of appropriate jobs in the region for life partners (m/f/d) or spouses (m/f/d) (dual career couples). It strives to increase the proportion of women in teaching and research. Qualified female scientists are therefore invited to apply.

Applications, stating the advertisement reference number (**30-E/2025**), should be sent with a curriculum vitae, a description of academic career, a list of publications with copies of the most important publications, a list of courses taught, the results of evaluations carried out in recent years, a certified copy of the highest academic degree, and a cover letter indicating your motivation for applying, as well as a research and teaching concept, by **June 15, 2025** to the:

**TU Bergakademie Freiberg - Human Resources Department - 09596 Freiberg
preferably by email (one pdf file): bewerbungen@tu-freiberg.de.**

**If you have any questions, please contact the Head of the Appointment Committee,
Prof. Dr.- Ing. Jörg Benndorf (Joerg.Benndorf@mabb.tu-freiberg.de) or the Dean's Office of Faculty 3 for Geosciences, Geotechnics and Mining (dekan3@fggb.tu-freiberg.de // +49 3731 39 2059).**

Please note that your application documents will not be returned. Please submit copies of your certificates only. Travel and other costs for interviews will not be reimbursed.