

At the Technische Universität Bergakademie Freiberg, Faculty of Geoscience, Geotechnics and Mining Engineering invites applications for a

### **(W3) Professorship in „Surface Mining and Recultivation “ - position number: 101-E/2024**



with anticipated starting date October 1, 2025.

The position holder (m/f/d) is expected to teach and conduct research in the field of near-surface mineral raw material extraction in open-cast mining, as well as the renaturation and recultivation of post-mining landscapes and brownfields. A special focus is laid on subjects such as energy transition, raw materials, mining communication and the secure and sustainable supply of primary mineral raw materials.

In alignment with the overarching mission and vision of TU Bergakademie Freiberg, there shall be a specific emphasis on practical, applied aspects within the technical-technological processes of mineral raw material extraction in surface mining, alongside interdisciplinary fundamental research. This may encompass alternative mining technologies, approval procedures, raw material communication, as well as topics related to the rehabilitation, reclamation, and subsequent utilisation of post-mining landscapes. Here, particular attention will be directed towards environmental protection, notably water management and maintaining high standards of occupational health and safety. Additionally, the exploitation of extra-terrestrial deposits and marine mining are identified as potential future research areas. A robust engagement in interdisciplinary research and development endeavours, substantial experience in the international mining or project sector and a strong commitment to forward-thinking education further characterise the desired attributes of the prospective professor.

Substantial laboratory equipment and unique research laboratories are available at the Institute of Mining and Special Civil Engineering, e.g. a Digital Mine Lab or a Mechanical Cutting Test Rig. We expect the new colleague to include and further develop this infrastructure and to use it in research projects with other research groups of TU Bergakademie Freiberg as well as with national and international institutions.

As the Resource University the TU Bergakademie Freiberg follows the profile lines Geo, Material, Energy and Environment. With top performance in research and teaching, it assumes responsibility for sustainable resource management. Through excellent research and teaching, future-oriented results are achieved together with national and international partners and highly qualified junior staff are trained. The university actively participates in the transfer of knowledge into practice. Next to providing an exciting research profile, we seek a scientists' personality, who feels motivated to lead a transdisciplinary working group, with Experience in the acquisition of funding and project management. Very good command of German and English as well as the ability and willingness to teach courses in German and English are expected. Publications in peer-reviewed international journals documenting outstanding scientific achievements, proven teaching experience, and experience in attracting external funding 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 (**101-E/2024**), 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 **July 15, 2024** to the:

**TU Bergakademie Freiberg - Human Resources Department - 09596 Freiberg  
preferably via email: [bewerbungen@tu-freiberg.de](mailto: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](mailto:Joerg.Benndorf@mabb.tu-freiberg.de)).**

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.