



In the heart of Saxony, the TU Bergakademie Freiberg has a lot to offer to outstanding young researchers.



The Faculty of Geosciences, Geotechnics and Mining, Institute of Drilling and Fluid Milling, invites applications for

**Tenure-Track-Professorship for Fluid Flow and Transportation Modeling in the Geosphere
(W1 with tenure track to a W2)
Position number 232/2018**

The Candidate (m/f/d) should represent flow and transport modeling in porous media, taking into account the conservation of soil and water. Experience in the modeling of water, gas, mass or heat transport in porous media in teaching and research is welcome. The professorship is an integral part of the established study programs Geotechnics and Mining, Geoecology and Geology / Mineralogy (Bachelor and Master) at the TU Bergakademie Freiberg.

In the context of digitalization, the modeling and visualization of flow and transport processes, particularly in the unsaturated zone, are of great importance in order to develop monitoring and forecasting systems based on geoscientific measurement data. The research focus is on both basic and application-oriented work.

In addition, co-operation with the joint research on the modeling of flow processes, permeation and migration studies in porous media, issues on the rheology of Newtonian and non-Newtonian fluids in jointly supervised graduation work and R & D projects with other professors at the institute are to be expected. As a fundamental for research and teaching, a well-equipped soil physical laboratory is available.

The special significance of the faculty's teaching is also expressed by the fact that it acts at the interface of geoen지니어ing and geosciences, both in the subjects of Geotechnical Engineering and Mining, Geoecology and Geology / Mineralogy as well as in interdisciplinary research reflects.

The professorship is funded by the Federal Ministry of Education and Research and is intended to offer new career opportunities for scientists at an early-stage of their career. Applicants are expected to have worked scientifically outside the TU Bergakademie Freiberg for at least two years.

Initially, the position will be a W1-professorship for three years which, after a successful evaluation, will be extended for another three years. In the second phase of the W2-professorship a tenure-track evaluation will be conducted in order to determine whether requirements for a permanent W2-professorship have been met. The evaluation criteria will be negotiated and will be based on research, teaching, academic self-administration and knowledge transfer. Based on international standards and transparent performance agreements, TU Bergakademie Freiberg ensures a fair tenure track evaluation process. In the research, this includes publications in peer-reviewed journals, successful fundraising, establishing of sustainable scientific co-operations and promotion of young scientists.

The applicant must fulfil the general criteria for an appointment as a professor according to § 63 of the SächsHSFG, Higher education act of Saxony in its currently valid and applicable version. The regulations of the SächsHSFG apply, cf. §§ 59, § 59 Abs. 2, 69 Abs. 3 SächsHSFG. TU Bergakademie Freiberg offers a programme that is tailored towards the specific needs of professors. Professors will find network meetings, mentoring programmes and also training packages and individual coaching particularly helpful.

For further information go to: <https://tu-freiberg.de/grafa>

The university supports candidates in finding adequate childcare and in providing information regarding local job positions for partners or spouses (Dual Career). TU Bergakademie Freiberg pursues an instructional and research concept that expects the successful candidate to move his or her main residence to Freiberg or its immediate vicinity. TU Bergakademie Freiberg seeks to employ more women professors. Hence we particularly encourage women to apply. Applications from disabled candidates or those with additional support needs are very welcome. The university is a family-friendly university and offers a dual career service.

For any questions kindly address the Dean of the Faculty, Prof. Dr. Klaus Spitzer (dekan3@fggb.tu-freiberg.de;
Gustav-Zeuner-Straße 12, 09599 Freiberg, Tel. +49 (0)3731 39-2722 or Ms Docekal, Tel.: +49 (0)3731 39-2059,
<http://www.tu-freiberg.de>)

Please address your application with reference to the **position number (232/2018)** consisting of a curriculum vitae, a description of your academic career, a list of publications, copies of the most important publications, a list of teaching activities, results of evaluations from the last years, along with a certified copy of the highest academic degree and a cover letter explaining your motivation for the application, as well as outlining your research and teaching concept as hard copy until **31.01.2019** (stamped arrival date of the university central mail service applies) to:

**Technische Universität Bergakademie Freiberg
Dezernat für Personalangelegenheiten
D-09596 Freiberg**