



At the Faculty of Geosciences, Geoengineering and Mining, Institute of Geology, Chair of Hydrogeology and Hydrochemistry, is a vacancy position to be filled as of October 15, 2022, initially for 2 years, for a



Research Associate (m/f/d) – reference number 234-E/2022

is available.

Pay grade: according to the German pay group "Entgeltgruppe" 13 TV-L
Hours: 0,75 FTE
Contract type: fixed-term until 14.10.2024

At the Chair of Hydrogeology and Hydrochemistry, the complex processes in the transport of substances, particles and microorganisms in the surface water-groundwater-rock system are investigated. Using groundwater for drinking water as well as for energy purposes are further important subjects of investigation.

Job description:

The position holder (subject to project funding approval) is involved in the LfULG funded project rock analysis and geochemistry of the lower Upper Cretaceous Königstein. Background of the project is to determine the pre-mining concentrations of different constituents in the groundwater based on existing drill cores.

The main focus is performing controlled batch tests and column flow experiments, combining in-situ rocks with (synthetic) groundwaters. Tasks include:

- designing the experimental system
- planning the experiment series using sedimentology data provided by the partners
- carrying out the experiments incl. continued model-based monitoring (thermal, hydraulic, chemical)
- mineralogical / geochemical evaluation of the rock properties before and after laboratory experiments
- publishing the results in scientific journals and at conferences

What you can expect from us:

- working at a family-friendly university with flexible working hours
- attractive fringe benefits, e.g. Asset-based benefits (VL), company pension schemes (VBL), health management, "Job-Ticket"
- a wide range of networking, mentoring and development opportunities
- a focused research programme and a structured training strategy

What we expect from you:

- university diploma or master degree in the field of geology / hydrogeology / geochemistry / hydrochemistry or equivalent
- very good performance during studies and willingness for further qualification are required
- experience with sampling of rocks and groundwater and their analysis in the laboratory is advantageous
- Experience in the use of hydrogeochemical modeling programs/codes (e.g., PHREEQC)

**For further information please contact Prof. Dr. Traugott Scheytt;
phone: +49-3731 39-2775 e-mail: Traugott.Scheytt@geo.tu-freiberg.de.**

The applicant (m/f/d) must meet the hiring requirements for fixed-term employment contracts according to the WisZeitVG. Applicants with disabilities will receive preferential consideration, provided they possess equal qualifications. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie is committed to increasing the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Written applications, including a CV, motivation letter and copies of all relevant qualifications documents (certificates, diplomas) and a summary of the thesis, should be submitted by **September 30th, 2022** stating **reference number (234-E/ 2022)** to the following address:

**TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg or
e-mail: bewerbungen@tu-freiberg.de**

Your application documents will not be returned, please only submit copies. TU Bergakademie Freiberg is always looking for scientific personnel from various disciplines. Further information can be found at <http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen>