



**Technische Universität Berlin**



Technische Universität Berlin offers an open position:

**Research Assistant - 0.75 working-time - salary grade E 13 TV-L Berliner Hochschulen**  
under the reserve that funds are granted

**Faculty VI – Institute of Applied Geosciences / Applied Geochemistry**

**Reference number:** VI-820/20 (starting at the earliest possible / limited for 3 years / closing date for applications 22/01/21)

**Working field:** The KRIMI joint project investigates how radionuclides can be immobilized in host minerals such as calcite and barite by recrystallization processes in deep geological repository systems.

For this purpose, we are looking for a research assistant who will take samples of natural geothermal fracture mineralization as well as sedimentary systems and characterizes them geochemically and mineralogically in the laboratory for micro phase analysis of the department of applied geochemistry of the TU Berlin. Various analytical methods are available for element / isotope / and structure analysis (e.g. LA-ICP-MS,  $\mu$ -XRF,  $\mu$ -XRD, electron microprobe). The results are supplemented by numerical modeling, laboratory experiments and high-resolution spectroscopic and microscopic investigations (e.g. EXAFS, FIB-TEM, AFM) by the other project partners (FZJ, KIT, HZDR, PSI, University of Bremen) and make a decisive contribution to the assessment of long-term safety of potential repository locations. The opportunity for a PhD thesis is included.

**Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent) in geosciences, geochemistry, chemistry or related subjects
- Experience in field work and readiness for sampling campaigns in Germany and Europe
- Experience in LA-ICP-MS analyses or other in situ mass spectroscopic methods
- Experience with other methods of solid-state analysis is an advantage (e.g. XRF, XRD, microprobe)
- Ability to work independently and to implement the results within the project network
- excellent organisational and communicational skills
- very good German and English skills
- good computer skills (excel, word, LA-ICP-MS software, e.g. Glitter, HDIP, MassHunter)

**What we offer:**

- Extensive development opportunities in a new, excellently equipped laboratory
- International and interdisciplinary network of renowned experts in the disposal of nuclear waste
- Access to the most modern experimental, analytical and theoretical methods
- Working on a topic of great importance for all of humanity
- Varied work at the interface between experiment and nature, macro and nanolevel, laboratory and field work

Please send your application with the **reference number** and the usual documents **only by email** (single pdf file, max. 5 MB) to **Prof. Neumann via [peggy.schmidt@tu-berlin.de](mailto:peggy.schmidt@tu-berlin.de)**.

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guaranty for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: [https://www.abt2-t.tu-berlin.de/menue/themen\\_a\\_z/datenschutzerklaerung/](https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/) or quick access 214041.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Technische Universität Berlin - Der Präsident - Fakultät VI, Institut für Angewandte Geowissenschaften, FG Angewandte Geochemie, Prof. Dr. Neumann, Sekr. BH 9-3, Ernst-Reuter-Platz 1, 10587 Berlin

The vacancy is also available on the internet at  
<http://www.personalabteilung.tu-berlin.de/menue/jobs/>

