



Technische Universität Berlin



Technische Universität Berlin offers an open position:

Research Assistant - salary grade E13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty VI - Institute of Applied Geosciences / Hydrogeology

Reference number: VI-336/24 (starting at the earliest possible / until 30/06/27 / closing date for applications 28/02/25)

Working field:

The Department of Hydrogeology at TU Berlin investigates the sustainable management of groundwater re-sources that require modern management concepts due to land use change and climate change. The department has an extensive experimental field equipment as well as two hydrogeological test sites (hard rock and porous media) for research and teaching in the Brandenburg region.

Within the framework of the position, hydrosystems influenced by opencast mining (limestone and lignite) are to be experimentally characterized at two locations in Brandenburg:

1. The Rüdersdorf open-cast limestone mine (hardrock aquifer) in the east of Berlin and
2. the UNESCO Biosphere Reserve Spreewald, which has and will undergo significant changes in the water balance and water chemistry due to both climate change and the lignite phase-out in Lusatia.

Using modern modelling approaches, management concepts are to be developed to preserve the ecosystems and groundwater resources in the region and to secure Berlin's water supply.

The work is being carried out in close cooperation with the Leibniz Institute for Applied Geophysics (LIAG), the Environmental Research Centre (UFZ), the BTU Cottbus, the company CEMEX, the Biosphere Spreewald and the LMBV. The work at the Rüdersdorf site is being carried out as part of the BMBF project GRaCCE (<https://me-wac-gracce.de/>).

Requirements:

- Successfully completed academic university degree (Master, Diploma or equivalent) in Earth Sciences or physical geography, hydrology, geocology, environmental sciences or similar
- Good German language skills (at least C1) for an exchange with the water authorities of Brandenburg and the local population in the Spreewald
- Readiness for field work, such as lifting heavy equipment even in difficult weather conditions.
- Driving licence class B
- Knowledge of scripting languages, such as Python

The following skills are also desirable:

- Knowledge of machine learning (ML) methods, such as neural networks
- Knowledge of flow in unsaturated and saturated media
- Knowledge of stochastic methods and geostatistics
- Knowledge of remote sensing

Please send your application with the **reference number** and the usual documents **only by email** (single pdf file, max. 5 MB) to **Prof. Dr. Irina Engelhardt** (irina.engelhardt@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 guarantee 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/.

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. Applications from people of all nationalities and with a migration background are very welcome.

Technische Universität Berlin - Die Präsidentin - Fakultät VI, Institut für Angewandte Geowissenschaften, FG Hydrogeologie, Prof. Dr. Irina Engelhardt, Sekr. BH-N 3-2, Ernst-Reuter-Platz 1, 10587 Berlin

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

