



Research Assistant - salary grade 13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty VI - Planning Building Environment, Institute of Applied Geosciences / Engineering Geology

Reference number: VI-397/25 (starting at 01/11/25 / limited until 31/10/2027 / closing date for applications 03/10/25)

Your responsibility:

Collaboration in the two-year German-Turkish industrial research project "TERALAND - Terrain Risk Assessment for Landslide Detection and Simulation" in the subproject "Integrated Landslide Risk Modeling and Impact Assessment" in cooperation with another German industrial partner, a Turkish industrial partner, and a Turkish university. As part of the subproject, an AI-supported tool for dynamic risk assessment and decision support for landslides is to be developed and evaluated together with the project partners.

- Development of a web-based, AI-supported tool for dynamic risk assessment and decision support in landslides – based on project data on hazard, exposure, vulnerability, and reconstruction costs
 - Collaboration on a database for risk and cost assessment, considering endangered infrastructure and population
 - Validation of the developed application in selected pilot areas
 - Performance of exposure and risk simulations for defined future scenarios
 - Application of landslide simulation models from project partners for overlaying with exposure data
 - Close interdisciplinary cooperation with German and Turkish industry and research partners
 - Presentation of research results at workshops and national and international conferences
 - Publication of results in scientific journals
 - Participation in project meetings and field work with partners in Turkey (if necessary)
 - Support for project coordination and writing project reports
 - Supervision of bachelor's and master's theses within the framework of the project
- Due to the two-year duration of the project, the position is not suitable for completing a PhD.

Your profile:

- Successfully completed university degree (Master, Diplom or equivalent) in geotechnology or engineering geology, or comparable professional qualifications.
- In addition, in-depth knowledge of mass movements and landslide risk, including susceptibility, hazard, exposure, and vulnerability, is required.
- Very good knowledge of geoinformation systems such as QGIS, GRASS GIS, SAGA GIS, or ArcGIS, as well as in the acquisition and further processing of remote sensing data and other geodata, is essential.
- Good knowledge of AI applications as well as knowledge of (geo) databases, programming, and implementation of web mapping services are desirable.
- Knowledge of numerical modeling of landslides, especially with Itasca PFC, is desirable.
- First experience in publishing in scientific journals is desirable.
- Experience in collaborating on, and ideally even coordinating, scientific or industrial research projects is desirable.
- The ability and willingness to work in the field, including abroad, is desirable.
- Very good written and spoken English skills are essential, and additional language skills in German are desirable.

How to apply:

Please send your application **with the reference number** and the usual documents **only by email** (single pdf file, max. 5 MB) to Pia Daute (pia.daute@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/.

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.

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

