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 Geodesy and geoinformation technology / Satellite Geodesy
Reference number: VI-35/25 (starting at 01/03/25 / limited until 31/12/2025 / closing date for applications 21/02/25)

Working field:

- Simulation studies with LEO PNT satellite fleets and integrating multi-GNSS systems to advance tropospheric data assimilation techniques for numerical weather prediction.
- Modeling slant and zenith delays across GPS, BeiDou, Galileo and large-scale LEO constellations through advanved simulations.
- Performing high-resolution (spatial and temporal) tropospheric parameter inversions, utilizing slant and zenith traveltime delays as critical observables.
- Validating inversion outcomes with observational datasets and through inter-technique comparisons to ensure accuracy and robustness.
- Integrating derived products into numerical weather prediction models for improved forecasting.

Requirements:

- Successfully completed scientific university degree (Master, Diplom or equivalent) in geodesy, atmospheric sciences, remote sensing or related fields.
- Proficiency in using slant and zenith tropospheric delays to atmospheric parameter inversion.
- Strong background in GNSS data analysis, LEO satellite simulations, and atmospheric modeling.
- Good knowledge of scientific programming in a suitable programming language such as Python and Matlab.
- Expertise in numerical methods for inversion and data assimilation workflow.
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills.

Please send your application **with the reference number** and the usual documents **preferably by email** (single pdf file; max. 5 MB) to Pia Daute (**pia.daute@tu-berlin.de**) or by mail to: Technische Universität Berlin - Die Präsidentin - Fakultät VI, Institut für Geodäsie und Geoinformationstechnik, FG Satellitengeodäsie, Prof. Dr. Dr. Harald Schuh, Sekr. KAI 2-2, Kaiserin-Augusta-Allee 104-106, 10553 Berlin.

For cost reasons, application documents will not be returned. Please submit copies only.

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.

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/.

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

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