



Technische Universität Berlin



Technische Universität Berlin offers an open position:

Research Assistant - 0.75 working time - salary grade E13 TV-L Berliner Hochschulen

Faculty II - Mathematics and Natural Sciences, Institute of Physics and Astronomy, Terahertz and Laser Spectroscopy

Reference number: II-257/25 (starting at 01/11/25 / limited until 31/10/2028 / closing date for applications 24/07/25)

Working field:

The research tasks are focusing on investigating different technological concepts for the realization of a compact, space prove, as much as possible chip-integrated Terahertz Time-Domain spectroscopy set-up for the investigation of moon regolith in ATR geometry. They are part of a project within the frame of the DFG priority program „INtegrated TERAhertz sySTems Enabling Novel Functionality (INTEREST)".

The tasks include:

- (i) investigations into the space readiness of key components,
- (ii) test and implementation of the near-infrared beamtransport into a fiber and/or waveguide platform,
- (iii) benchmarking of an, within the frame of the project developed, Time-Domain spectroscopy breadboard-set-up on suitable planetary test samples.

Requirements:

- Successfully completed scientific university degree (Master, Diplom or equivalent) in physics or a related field
- Fundamental knowledge in applied Optics
- Hands on experience with femtosecond lasers
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills

Desirable:

- Capability to work in an interdisciplinary, international team
- First practical experiences in programming with Python or LabVIEW and with applications of laser spectroscopy in planetary research are of advantage

For further information, please contact Prof. Dr. Michael Gensch (Tel.: +49 (0)30 314-26644, e-mail: michael.gensch@tu-berlin.de).

Please send your application with the **reference number** and the appropriate documents (combined in a single pdf file, max 5 MB) by email to Patrycja Ibendorf (patrycja.ibendorf@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 II - Mathematik und Naturwissenschaften, Institut für Optik und Atomare Physik, AG Terahertz- und Laserspektroskopie, Prof. Dr. Michael Gensch, Sekr. ER 1-1, Hardenbergstraße 36, 10623 Berlin

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

