



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; under the reserve that funds are granted

Faculty IV - Institute of High-Frequency and Semiconductor System Technologies - Forschungsschwerpunkt Technologien der Mikroperipherik

Reference number: IV-88/25 (starting at 01/05/25 / until 30/04/27 / closing date for applications 21/03/25)

Working field:

Within a third-party funded research project the TU Berlin will develop through means of ion-exchange and fs-laser structuring methods innovative SERS microplates made of glass.

The work at TU Berlin focusses on the development of SERS-substrates (Surface Enhanced Raman Spectroscopy) by nanoparticle integration. These nanoparticles will be integrating through ion-exchange processes. In addition, microplates made from glass will be developed using SLE processes (Selective Laser Etching). In combination with SERS, state-of-the-art substrates for analytics are being developed together with a project partner for use in biosensor technology in particular.

Requirements:

- Successfully completed university degree (Master, Diplom or equivalent) in Biophysics / Photonics / Physical engineering / Physics or related Subjects
- Knowledge and experience in:
 - a) Optics (Fundamentals, lasertechnology, free-space optics)
 - b) Raman spectroscopy
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills

Desirable:

- Knowledge in Statistical experimental planning (DoE) and evaluation
- Knowledge in Laser-glass interactions (especially Selective Laser Etching)
- Structured and independent work style
- Readiness to assume responsibilities for sub-tasks
- Capable of working in a Team, readiness for thorough documentation

Please send your application with the **reference number** and the usual documents (one file max. 5 MB) only via email to **personal@tmp.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.

Technische Universität Berlin - Die Präsidentin - Fakultät IV- Institut für Hochfrequenz- und Halbleiter-Systemtechnologien - Elektrotechnik und Informatik, Forschungsschwerpunkt Technologien der Mikroperipherik, Prof. Dr.-Ing. Martin Schneider-Ramelow , Sekr. TIB 4/2-1, Gustav-Meyer-Allee 25, 13355 Berlin

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

