Technische Universität Berlin

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

*a prolongation by 5 month until the 31.10.2028 may be possible under the prerequiste that a prolongation of the project is granted by the third party funding agency.

Faculty II - Mathematics and Natural Sciences, Faculty II - Mathematics and Natural Sciences, Institute of Physics and Astronomy, Terahertz and Laser Spectroscopy
Reference number: II-350/25 (starting at 01/11/25 / limited until 30/06/2028* / closing date for applications 12/09/25)

Your responsibility:

The research tasks include the Investigation of spintronic Terahertz emission processes after excitation with ultra-short light pulses. In particular dependencies on the wavelength, from the meV to KeV regime with a focus on the UV to X-ray regime, the pulse energy, the pulse duration and pulse form shall be investigated. An additional focus is on the development of a robust electro-optic detection scheme that allows to detect THz waveforms, pulse resolved and sensitive. Moreover, contributions will be made to the development of a X-ray pulse property monitor in collaboration with the European XFEL GmbH.

Your profile:

- successfully completed scientific university studies (Master's degree, diploma or equivalent) in physics or a related subject area
- fundamental knowledge in applied Optics
- hands on experience with femtosecond lasers
- capability to work in an interdisciplinary, international team (desirable)
- first practical experiences in programming with Python or LabVIEW are an advantage
- good knowledge of German and/or English required; willingness to acquire the respective missing language skills

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

How to apply:

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.

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

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