



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

**Reference number:** IV-200/25 (starting at 01/11/25 / until 14/05/27 / closing date for applications 21/07/25)

### **Working field:**

Within a third-party funded research project the TU Berlin will develop a 5G monitoring platform for high and extra-high voltage grids is to be developed to support the goal of net zero emissions in smart grids.

The work at TU Berlin focusses on the development in particular on multi-protocol data transmission for energy self-sufficient wireless sensor systems.

### **Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent) in computer science, computation engineering science or electrical engineering
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills
- Knowledge and experience within at least two of the following topics:
  - a) Programming of real-time capable operating systems for embedded systems (RTOS, Zephyr, embedded Linux)
  - b) Implementation of wireless data transmission solutions (full-stack development Bluetooth, LoRa)
  - c) Selection and application of AI methods specifically for embedded systems
  - d) Programming of web applications for IoT systems (frontend/backend)

### **Desirable:**

- Knowledge in:
  - (a) analog and digital circuit design
  - (b) use and application of multi-sensor technology
  - (c) description and synthesis of FPGAs
- Ability to think ahead and find uncomplicated solutions
- Structured and independent way of working, Ability to work in a team, willingness to take responsibility

### **You can expect:**

- unique mix of dynamics, flexibility and teamwork
- possibility to work independently
- research-intensive and innovative environment
- excellent equipment
- possibility to do a doctorate

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/](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/>

