



Technische Universität Berlin



Research assistant - salary grade E 13 TV-L Berliner Hochschulen

part-time employment may be possible

Faculty IV - Electrical Engineering and Computer Science, Institute of Energy and Automation Technology / Power Electronics

Reference number: IV-386/25 (starting at 01/10/25 / until 30/09/28 / closing date for applications 26/09/25)

Your responsibility:

Research in a DFG cooperation project in the field of wide bandgap power semiconductors: Measurement, characterization and analysis of new power semiconductors based on gallium oxide (Ga₂O₃), in particular research into switching behavior in hard- and soft-switching converters; investigations into thermal properties; simulation and modeling of the semiconductors for use in circuit simulation.

There is the possibility of pursuing a doctorate.

Your profile:

- Successfully completed university degree (Master or equivalent) in electrical engineering or physics; very good degree expected
- Very good knowledge of power electronics, power semiconductors, measurement techniques, and experiences in electronic hardware development;
- Good knowledge of German and/or English (written and spoken) required; willingness to acquire the respective missing language skills; - Good knowledge of written and spoken German language desirable
- Solid foundations of scientific work and writing
- Practical experience in the development of power converters, knowledge about EMI desirable
- Knowledge about wide bandgap power semiconductors desirable
- Knowledge about converter control techniques and experience in programming of microcontrollers desirable

How to apply:

Please send your application with the **reference number** and the usual documents including language certificates by e-mail to Prof. Dr. Sibylle Dieckerhoff (sekr@pe.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.

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

