



Technische Universität Berlin



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

part-time employment may be possible; under the reserve that funds are granted

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

Reference number: IV-387/25 (starting at 01/01/26 / until 31/07/28 / closing date for applications 26/09/25)

Your responsibility:

Research in a DFG project as a part of the priority programme "GaNus" in the area of modern wide-bandgap-power semiconductors. PhD thesis preparation is possible.

- Expansion of methods and test capabilities for trapping-related characterization of GaN power devices
- Experimental characterization and analysis of GaN-on-Si-semiconductors
- Analysis of long-term stability of GaN semiconductors
- Characterization of GaN-semiconductors using temperatures up to 175 °C

Your profile:

- Excellent completed university degree (Master, Diplom or equivalent) in electrical engineering;
- We expect very good knowledge of power electronics, wide-bandgap-power semiconductors, measurement techniques and experiences in electronic hardware development
- You'll need practical experience in programming C2000 microcontrollers
- Good knowledge of German and/or English (written and spoken) required; willingness to acquire the respective missing language skills
- We expect solid expertise of scientific work and writing is desirable
- Practical experience in the development of electronic-hardware 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>

