



**Technische Universität Berlin**



Technische Universität Berlin offers an open position:

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

part-time employment may be possible

**Faculty IV - Institute of Energy and Automation / Technology Sustainable Electric Networks and Sources of Energy**

**Reference number:** IV-599/24 (starting at 01/02/25 / until 31/03/26 / closing date for applications 22/11/24)

### **Working field:**

- Controllers for the Fault-ride-Through behavior for grid-forming converters connected to wind turbines are developed and analyzed
- A suitable validation involving EMT (Electromagnetic Transients) simulation must be carried out
- The importance of the design of dynamic controllers for the security of AC-DC networks is to be demonstrated using test networks. The high-voltage and microgrid levels with connection to multi-energy systems are considered
- Imparting knowledge through lecture material and publication

### **Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent) in engineering with a focus on electrical energy technology
- Very good knowledge and experience in controlling network-forming converters
- Very good knowledge and experience of EMT simulation
- Very good knowledge and experience of network security
- Experience in practical use of laboratory equipment
- Good knowledge of German and/or English required; Willingness to acquire the respective missing language skills

Please send your application with the **reference number** and the usual documents only by email (single pdf file; max. 5 MB) to **kai.strunz@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/](https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/) or quick access 214041.

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 Energie- und Automatisierungstechnik, FG Energieversorgungsnetze und Integration Erneuerbarer Energien, Sekr. EMH 1, Einsteinufer 11, 10587 Bei

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

