



**Technische Universität Berlin**



Technische Universität Berlin offers an open position:

## **Research Assistant (PostDoc) – salary grade E13 TV-L Berliner Hochschulen**

Part-time employment may be possible

**Fakultät II – Institut für Chemie – Technische Chemie / Elektrokatalyse – Materialien**

**Reference number:** II-533/24 (starting at 01/01/25 / limited until 28/02/2026 / closing date for applications 16/10/24)

### **Working field:**

- Participation in a BMBF-funded research project in the field of electrocatalytic water splitting using an anion exchange membrane (focus electrolyser single cell testing and membrane elec-trode assembly development)
- Independent and scientific work in the field of electrochemistry, electrocatalysis, catalyst synthesis and catalyst characterization

### **Requirements:**

- Successfully completed university degree (Master, Diploma or equivalent) and PhD in chemical engineering, chemistry, physics or similar
- Proven experience in scientific writing and publishing
- Knowledge in the field of electrochemical characterisation of membrane electrode units, impedance spectroscopy, pole curves, cell fabrication
- Proven knowledge in the field of electrode surface characterization and electrode preparation (MEA, CCS)
- Experience in the field of material characterisation of common characterisation techniques/X-Ray: XRD, XPS, TEM, SEM, as well as vibrational spectroscopy: Raman, IR
- Good handling of the appropriate software to evaluate and analyse the applied techniques
- Experience and knowledge in the field of electrocatalytic production of green hydrogen by electrolysis (focus on AEM electrolyser, if necessary)
- Detailed knowledge of the following software: OriginLab, Matlab, Excue Editor and Microsoft Office
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills

### **Desirable:**

- Experience in the field of automatization of electrolyzer measurements (specifically 25-50 cm<sup>2</sup> in stack configuration)
- Experience in MEA characterization of surface morphology (GDE's CCM and CCS coatings)
- Experience in the field of mechanical properties assessment of electrolyser cells, i.e. pressure and temperature management
- Knowledge about the following methods: electrolyser single cell testing, XRD, SEM, TEM, XPS
- Very good teamwork skills, especially with regard to supervising students

### **We offer:**

- A varying job within an international university
- Cooperation with other research facilities and industry
- A modern workspace in Berlin
- International renowned and motivated team
- A nice working atmosphere

Please send your application with the **reference number** and the usual documents (combined in a single pdf file, max 5 MB) **by email to [pstrasser@tu-berlin.de](mailto:pstrasser@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/).

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 II, Institut für Chemie - Technische Chemie / Elektrokatalyse - Materialien, Prof. Dr. P. Strasser, Sekr. TC 3, Straße des 17. Juni 124, 10623 Berlin

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

