



Technische Universität Berlin



Research Associate (PhD) – salary grade E13 TV-L Berliner Hochschulen

Part-time employment may be possible

Faculty II - Mathematics and Natural Sciences, Institute of Chemistry - Technical Chemistry

Reference number: II-474/25 (starting at 01/01/26 / limited until 31/01/2027 / closing date for applications 07/11/25)

Your responsibility:

The Electrochemical Energy Science group at Technische Universität Berlin seeks to hire a candidate with hands-on experience in experimental **electrochemistry and electrocatalysis**.

Participation in a BMBF-funded research project in the field of Li-mediated electrochemical nitrogen reduction reaction (Li-NRR) for green ammonia synthesis in gas-diffusion-based flow cell systems. Main focus is on cell design, especially flow field design, and characterization techniques. The goal of this project is to advance the understanding and optimization of Li-NRR processes and contribute to sustainable ammonia production within the green hydrogen value chain.

Your profile:

- Successfully completed university degree (Master, Diploma or equivalent) and Ph.D. in Chemistry, Physical Chemistry, Chemical/Mechanical Engineering
- Experience with electrochemical flow cell design and operation and electrochemical measurement methods
- Demonstrated experience with characterization techniques (XRD, XPS, TEM, SEM, operando techniques desirable)
- Detailed knowledge of electrochemical software and programming languages (Python, Matlab, C++)
- Proven experience in scientific writing and publishing
- Good knowledge of German and/or English required; willingness to acquire the respective missing language skills
- Experience in synthesis of catalytic material is desirable
- Experience in the field of optimising the mechanical properties of electrolysis cells, e.g. pressure and temperature management is desirable
- Experience in supervising students' final theses is desirable

What 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 and a nice working atmosphere

How to apply:

Please send your application, **quoting the reference number**, with the following documents: cover letter, CV, copies of your most important certificates such as Master's/Diploma, summary of your Master's thesis, academic transcript with grades and list of publications (as a PDF file, max. 5 MB), by email to **pstrasser@tu-berlin.de**. **Only complete application documents will be considered!**

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/.

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>

