

At the TU Bergakademie Freiberg, Germany a

PhD Position (m/f/d) – reference number 227-E/2024

is expected to be filled on a temporary basis as of 01.03.2025.

Pay grade: according to German pay grade E13 TV-L
Hours: 0,67 FTE
Contract type: 3 years (with option for extension)



As part of the collaborative project "Electrochemical Switching of Functional Polymer Brushes and Coronas", funded by the German Research Foundation (DFG) between the research groups of Prof. Plamper (Freiberg) and Dr. Alexander Münch / Dr. Petra Uhlmann (Dresden), electrochemically addressable brushes will be prepared and their switching behaviour explored. The successful candidate will be employed in Freiberg, Germany, while the project includes short-term exchanges with the Leibniz-Institute of Polymer Research, Dresden (IPF).

Job description:

- Synthesis of electroactive polymer systems
- Application of controlled polymerization techniques
- molecular, nanoscopic and electrochemical polymer characterization
- targeted preparation of electroactive polymer aggregates in solution and at interfaces
- electrodeposition
- electrochemical switching of the interfacially bound polymer layers
- Possible (in-situ) monitoring of the switching process using scattering methods such as SAXS and GISAXS
- Preparation of publications, preparation of research reports

The position is suitable for doctoral studies.

What you can expect from us:

- Working at a family-friendly university with flexible working hours
- Remuneration according to the provisions of the collective agreement for the public service of the German federal states in accordance with the personal requirements
- Attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL), health management, discounted ticket for local public transport "Job-Ticket"
- Supervision by experienced scientific supervisors
- further training opportunities

What we expect from you:

- very good university diploma or master's degree in the field of chemistry, applied science, nanotechnology or in a field related to these areas
- Experience in electrochemistry, polymer chemistry, colloid chemistry and/or interfacial chemistry and in related characterization techniques
- excellent English (and German) language skills, both written and spoken
- independent goal-oriented and interdisciplinary working style

For further information please contact Prof. Dr. Plamper, Tel. 0049-(0)3731 39-2139, e-mail: plamper@chemie.tu-freiberg.de.

The applicant (m/f/d) must meet the hiring requirements for a fixed-term contract according to the WissZeitVG. Applicants with disabilities will receive preferential consideration, providing they possess equal qualification. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie Freiberg is committed to increase the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Please send your application with a cover letter/motivation letter, CV, copies of all relevant certificates, quoting the **job advertisement reference number (227-E/2024) by 05.01.2025** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

**TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg
or by e-mail to: bewerbungen@tu-freiberg.de**

Interview costs will not be covered. The TU Bergakademie Freiberg is also looking for staff from various disciplines. Further information can be found at: <https://tu-freiberg.de/stellenangebote>