UNIVERSITÄT PADERBORN
Die Universität der Informationsgesellschaft

Paderborn University is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,600 employees in research, teaching, technology and administration a lively, family-friendly, equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent the future!

Within the **Faculty of Natural Sciences**, the Department of Chemistry conducts research on **energy-related sciences and sustainable chemistry**. The **Steinrück group** (www.chemie.upb.de/steinrueck) is interested in electrochemistry, energy storage, desalination, interfaces, and synchrotron techniques. In this context, we offer the following position within the framework of a DFG project (starting as soon as possible):

PhD student (f/m/d)

(Salary level 13 TV-L)

The position (50% regular working time) entails a fixed-term contract for the duration of a PhD project. The position is initially limited to three years due to third-party funding within the scope of the Wissenschaftszeitvertragsgesetz (WissZeitVG). The duration of the fixed term generally corresponds to the approved project duration of three years. The possibility to graduate as a PhD is provided.

Position Profile:

- Fabrication and characterization of model thin film Si anode electrode materials for Li-ion batteries.
- Investigation of the passivation of the solid electrolyte interphase on model thin film Si anodes.
- X-ray reflectivity measurements of the lithiation and delithiaton of model thin film Si anodes.
- Publication of the acquired results in scientific journals.
- Teaching of up to 2 hours per week.

Your profile:

- Excellent Master's degree in chemistry, physics or a closely related, relevant subject.
- Background in at least one of the following fields:
  - Electrochemical measurement methods.
  - Structural characterization of matter (e.g., X-ray diffraction, X-ray spectroscopy, X-ray microscopy).
  - Fabrication of electrodes for electrochemical systems.
  - Programming languages (e.g., Python).

Paderborn University is a family-friendly university and supports its employees with the compatibility of career and family. We make personnel decisions based on qualifications, skills, and academic achievements. Applications from women are particularly welcome and, in case of equal qualifications and experience, will receive preferential treatment according to state law (LGG). Part-time employment is generally possible. Qualified disabled people (in the sense of the German social law SGB IX) are also encouraged to apply.

For further information please contact Jun. Prof. Dr. Hans-Georg Steinrück.
Please send your application AS A SINGLE PDF FILE in German or English to **hans.georg.steinrueck@uni-paderborn.de** referring to the **reference no. 5727.**

Information regarding the processing of your personal data can be located at: https://www.uni-paderborn.de/en/zv/personaldatenschutz

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