

## 1 PhD Student Position: New Concepts in Heterogeneous Catalysis, Electrocatalysis, Surface Science, and Energy Storage

Applications are invited for a PhD student position at the Erlangen Center for Interface Research and Catalysis, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Group of Prof. Jörg Libuda.

Research topics will cover the following fields: (1) Heterogeneous Catalysis over model and real catalysts; (2) Electrocatalysis and electrochemistry; (2) Surface science studied on model catalysts; (3) In-situ studies on innovative materials for energy storage. All topics comprise spectroscopic and microscopic experiments.

All research projects aim at acquiring molecular level understanding of catalytic and electrocatalytic processes using innovative materials concepts. The range of experimental methods will comprise state-of-the-art spectroscopy (vibrational spectroscopy, diffraction methods, photon based methods) and microscopy (scanning tunneling microscopy, atomic force microscopy) in ultrahigh vacuum, at liquid/solid interfaces, at electrochemical interfaces, and gas/solid interfaces. The projects are embedded into interdisciplinary and international cooperations involving partner groups from natural science, engineering, and industry.

The Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg ([www.fau.eu](http://www.fau.eu)) is among the top-ranked Universities in chemistry research in Germany. In particular, FAU is ranked 1<sup>st</sup> in the field of Chemical Solid State and Surface Research (DFG Funding Atlas). We offer leading-edge projects, state-of-the-art equipment and excellent working conditions. The Erlangen Center for Interface Research and Catalysis ([www.ecrc.fau.eu](http://www.ecrc.fau.eu)) covers state-of-the-art research on catalysis and interfaces in all its facets from basic research to process development. At the Chair of Interface Research and Catalysis (Libuda Group, [www.ecrc.fau.eu/libuda-group](http://www.ecrc.fau.eu/libuda-group)) we focus on the fundamental understanding of chemical processes at complex interfaces.

We expect flexibility and commitment, but also communication skills and the capability to work in a team. For application as a PhD student, a diploma or master degree in chemistry, physics, chemical engineering, or materials science is required. Specific experience in the research field is not mandatory.

The university promotes gender equality and aims at increasing the fraction of women in science. Handicapped persons are preferred if equally qualified. Please send your CV / list of publication / references / summary of research activities to:

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