

PhD Position: Development of Materials for Carbon Capture

The Erlangen Center for Interface Research and Catalysis (ECRC) at Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is seeking a highly motivated PhD candidate. The doctoral researcher will join the Chair of Prof. Dr. Martin Hartmann, working under the direct supervision of Dr. Valeryia Kasneryk.

About the Position

The research project for this PhD thesis focuses on the investigation and development of advanced materials for CO₂ capture processes. The successful candidate will be responsible for performing experimental measurements, conducting detailed data analysis, and characterisation of materials by physico-chemical techniques, including X-ray analysis, vibrational spectroscopy, and physisorption methods. The candidate will collaborate with international project partners and contribute to the preparation of scientific manuscripts. The current project is a part of the WEAVE cross-European initiative, funded by the German Research Foundation (DFG).

Your Qualifications

- A university degree (Master's or equivalent) in Chemistry, Physical Chemistry, Chemical Engineering, Materials Science, or a closely related field.
- Practical experience with material characterisation techniques.
- Ability to work independently as well as a part of an interdisciplinary team
- Proficiency in written and spoken English is required; knowledge of German is beneficial but not essential.
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Equal Opportunities Statement

Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is an equal opportunity employer. We welcome applications regardless of age, gender, cultural or social background, religion, ideology, disability, or sexual identity. We strive for gender equality and expressly encourage women to apply. Candidates with severe disabilities will be given preferential consideration if their suitability and qualifications are equivalent to other applicants.

How to Apply

The position is available to be filled as soon as possible. Please send your application documents directly to Dr. Valeryia Kasneryk (valeryia.kasneryk@fau.de).

Your application should include:

- A CV and a list of publications (if applicable)
- A letter of motivation
- Contact information for at least one academic referee
- Copies of your academic degrees and transcripts of records

Additional Information

Project duration 36 months