

PhD position (m/f/d) – 421-02/2023 In the field of electrochemical synthesis

The Leibniz Institute for Catalysis (LIKAT Rostock) with over 300 employees and guests is one of the leading European research institutions in the field of catalysis. LIKAT is a competent partner for research and development of homogeneous and heterogeneous catalysts as well as catalytic processes and technologies. LIKAT's focus is on application-oriented basic research and applied research. Therefore, it cooperates with industrial companies and research institutes worldwide.

The research department "Electrochemistry & Catalysis" offers the following position:

Your task:

The goal of the PhD project is to develop new approaches toward utilization of agricultural waste products for synthetic chemistry. Valuable molecular building blocks will be generated by electrochemical conversion of renewable feedstocks. The project, funded by the Agency for Renewable Resources (FNR), includes the synthesis and electrochemical characterization of electrocatalysts as well as the development of processes in the electrochemical flow reactor. Products (and product distributions) will be analyzed using chromatographic techniques (GC, GCMS, and HPLC). A fundamental understanding of the relationship between performance, catalyst structure and reaction conditions is aimed for.

Your competence:

The candidate should have a Master's degree in chemistry or chemical engineering with a substantial background in electrochemistry, technical chemistry, and/or organic chemistry. Specialized knowledge or practical experience in the fields of electrosynthesis, electroanalytical chemistry, or chromatographic methods are advantageous, but can also be acquired on site.

Our offer:

We offer the chance to become a pioneer in the electrochemical valorization of renewable feedstocks. We provide an exciting and challenging PhD project in an excellent, international research environment at LIKAT Rostock. Mentoring and support for the doctoral student is provided through a comprehensive training phase and regular exchanges with the supervisor. The position is available from February 1, 2024 and fully funded for 3 years. Place of work is Rostock, a university city with direct access to the Baltic Sea. The salary is based on public service rates of the German states (E13 TV-L, 66%).

LIKAT supports professional equality of women and men and so applications from women are most welcome. Disabled applicants with equal qualification and aptitude will be given preferential consideration.

Please, send your application (including CV, list of publications, copies of relevant examination certificates as well as names and contact information of two references) as an e-mail (in one pdf file with a max. size of 25 MB) quoting the reference number 421-02/2023 to bewerbungen@catalysis.de until December 15, 2023.

For topic-related questions, please contact Prof. Robert Francke, head of department "Electrochemistry & Catalysis" (robert.francke@catalysis.de) directly.

Please note that application and travel costs cannot be reimbursed.