

## PhD position (m/f/d) – 401-01/2024 In the area of Sustainable Redoxreactions

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

The research group of Dr. Kathrin Junge in the department of Applied Catalysis headed by Prof. Dr. Dr. h.c.mult. Matthias Beller has an opening for a position in this area.

### Your task:

The goal of the PhD is to develop homogeneous catalyst systems for chemical transformations in the field of amine alkylation with carbon dioxide and renewable carboxylic acid derivatives. The project is funded by a joined project of the DFG and the NSERC (Natural Sciences and Engineering Research Council of Canada) and aims for the synthesis of high valuable amine intermediates via CO<sub>2</sub> fixation. Novel catalysts and products will be characterized using spectroscopic methods (NMR, IR, GC, GCMS, and HPLC).

### Your competence:

The candidate should have a Master's degree in chemistry or chemical engineering with a background in catalysis, organic or organometallic chemistry. An excellent knowledge of either German or English language is required. Specialized knowledge or practical experience in the fields of organometallic chemistry, complex synthesis, inert gas and autoclave techniques, catalytic (transfer)hydrogenation chemistry as well as elucidating reaction mechanisms would be desirable. The applicant should have a high degree of self-motivation, identify with the goals of the institute and actively participate in problem solving across research topics. Applications from Applied Universities ("Fachhochschulen") can be also considered.

**Our offer:** We offer a challenging PhD position in an excellent, international environment at the 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 April 1, 2024 and limited to 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. In areas where women are underrepresented at LIKAT preference will be given to women with equal qualification. Disabled applicants with equal qualification and aptitude will be given preferential consideration.

Please, send your application (including C.V., list of publications, copies of relevant examination certificates and names contact information of two referees) as an e-mail (**in one pdf file with a max. size of 25 MB**) by e-mail quoting the reference number **401-01/2024** to **bewerbungen@catalysis.de** until **February 29, 2024**.

For topic related questions, please contact Dr. Kathrin Junge (Kathrin.Junge@catalysis.de) directly.

Please note that application and travel costs cannot be reimbursed.