

PhD position (m/f/d) – 417-01/2025

In the area of organometallic chemistry of early transition metals

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. Fabian Reiß in the department of Modern Concepts in Molecular Catalysis (Prof. Torsten Beweries) has an opening for a position in this area.

Your task:

You will develop and characterise new early transition metal-based metallacyclobutadiene complexes that can be used for catalytic transformations of alkynes. The project will involve the design and synthesis of new ligands and transition metal complexes, in-depth characterisation using state-of-the-art spectroscopic and computational methods, as well as catalytic tests, and mechanistic studies. Spectroscopic and computational characterisation will be done in the group and with in-house and external cooperation partners. The results will be disseminated by the PIs and the PhD student, mainly through publications and at conferences.

Your competence:

We are looking for a person with a Master's degree in chemistry, proven very good experience in synthesis under anaerobic conditions is mandatory. Ideally, the candidate should also have experience in homogeneous catalysis, organometallic chemistry or organic chemistry. Experience in ligand synthesis is an advantage. A good command of written and spoken English is also required. The applicant must be willing to work in an international research team, have a high level of self-motivation and work independently at a high scientific level.

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 May 1, 2025 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 417-01/2025 to bewerbungen@catalysis.de until April 4, 2025.

For topic related questions, please contact Dr. Reiß or Prof. Beweries (fabian.reiss@catalysis.de, torsten.beweries@catalysis.de) directly.

Please note that application and travel costs cannot be reimbursed.