



## PhD position (m/f/d) - 419-01/2019

### “De novo design of artificial transition metalloenzymes for homogeneous catalysis”

The Leibniz Institute for Catalysis (LIKAT) is one of the leading European research institutions in the field of homogeneous and heterogeneous catalysis. Major goals of our scientific work are the elaboration of knowledge in basic research in all areas of catalysis as well as the transfer of results into technical applications. LIKAT is partner of the Leibniz Wissenschaftscampus ‘ComBioCat’, which is a collaboration with the Universities of Rostock and Greifswald and the INP Greifswald, in the fields of homo-, hetero- and biocatalysis, engineering, materials chemistry and plasma research. In this regard, LIKAT offers a PhD position on “De novo design of artificial transition metalloenzymes for homogeneous catalysis”.

The PhD-student will investigate the ‘de novo’ design of transition metalloenzymes, by functionalising proteins with phosphorus and / or nitrogen ligands and binding them to late transition metals. We aim to apply techniques from homogeneous catalysis, organic and organometallic chemistry, biological chemistry and molecular biology to optimise the catalytic performance of these artificial metalloenzymes in selective transition metal catalysed reactions. The research will be performed in collaboration with the group of Prof. Uwe Bornscheuer at the University of Greifswald.

We offer a challenging PhD position in an international research group in an excellent environment at LIKAT. Place of work is Rostock. The position is available from November 1<sup>st</sup>, 2019 and is restricted to three years. The salary is based on public service rates of the German states (E13 TV-L, 50%).

A Diploma or Master degree in chemistry is required. The candidate should have experiences in homogeneous catalysis, organic synthesis or biochemistry. Experiences in the field of molecular biology or computational studies are desirable. Solid knowledge in computing, interpretation of data and their presentation is necessary.

LIKAT supports professional equality of women and men and so applications from women are most welcome. As women are underrepresented in this sector 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 a complete application (CV, certificates etc.) in one pdf file with max. size of 25 MB quoting the reference no. **419-01/2019** to **bewerbungen@catalysis.de** until **15.09.2019**.

For topic related questions, please contact Prof. Paul C. J. Kamer (E-mail: paul.kamer@catalysis.de) directly.

Please note, that the institute cannot reimburse any application and travel costs.