

Postdoc (m/f/d) Enzyme Engineering for C1 Utilization

The Chair of Chemistry of Biogenic Resources at the Technical University of Munich (TUM) at its Campus Straubing for Biotechnology and Sustainability is engaged in research and teaching in the development of biotechnological approaches for the production of bulk and fine chemicals, biopolymers and fuels from biogenic resources, hydrogen and CO₂. For a publicly funded project in cooperation with two industry partners in the field of **Amino Acid production from CO₂ and Hydrogen** (see also [https://www.cell.com/chem-catalysis/fulltext/S2667-1093\(22\)00706-0](https://www.cell.com/chem-catalysis/fulltext/S2667-1093(22)00706-0)) we are looking for a highly qualified and motivated scientist (m/f/d).

The research topic

- Engineering of enzymes and their application related to Methanol utilization in enzyme cascades
 - Enzyme assay development
 - Utilization of robotics and microfluidic screening devices
 - Establishing and kinetic model-based optimization of enzyme cascades
 - Enzyme immobilization
- Scientific and organizational support of current research projects with coordination of national and international project partners, e.g. in the topic of biocatalytic C1 conversion, development of enzyme cascades or enzyme engineering

Further activities

- Coordination of the project (communication with project partners and funder)
- Supervision of master's students and interns
- Scientific publishing and possibly writing research proposals

Your profile

- Above-average Master's degree and doctorate in biochemistry, biotechnology, chemistry or related
- Experience in the field of biocatalysis, protein chemistry, enzyme engineering, organic chemistry or related fields
- Experience in the field of bioinformatics or the application of bioinformatics tools is an advantage
- Experience with the publication of research results
- Scientific curiosity, ability to work in a team and self-motivated working style, excellent organizational skills and willingness to take on responsibility

Our offer

The Technical University of Munich is one of the most renowned universities in the world. TUM's Straubing Campus for Biotechnology and Sustainability is a newly established integrative research center with the aim of laying the technological and economic foundations for a more sustainable economy through highly interdisciplinary research. The Straubing site offers state-of-the-art laboratories in an attractive mix of new buildings and newly renovated monastery buildings close to the city center and in the immediate vicinity of the Danube river with short distances and a comprehensive range of leisure activities.

The contract will initially be limited to 2 years, an extension is possible. Remuneration is in accordance with TV-L (Bayern EG13). As an equal opportunities employer, TUM expressly encourages applications from women. Preference will be given to disabled applicants with essentially equal qualifications.

Your application

We look forward to receiving your complete application documents including your letter of motivation, CV and certificates in a single pdf file by e-mail to bew_cbr@cs.tum.de with the keyword "C1".

Technical University of Munich

Chair of Chemistry of Biogenic Resources, Prof. Dr. Volker Sieber
www.rohstoffwandel.de, www.cs.tum.de, www.tum.de