Lehrstuhl für Chemie Biogener Rohstoffe
Campus Straubing für Biotechnologie und Nachhaltigkeit
Technische Universität München

For our BMBF funded project starting now we are looking to fill the position of a

Research Assistant/Doctoral Candidate (m/f/d)

In the subject area of

Enzymatic Cascades design in micro disks

The research project and environment

In a cooperative project funded by BMBF, green hydrogen will be employed to drive the production of chemicals. In our part of the project, multi-enzymatic cascades are to be designed and optimized to produce lactams derivatives from renewable materials in aerobic and anaerobic setups. The established cascades will be integrated into an electrochemical setup to create a platform for an H_2-driven production system using micro disks. The Chair of Chemistry of Biogenic Resources at the Technical University of Munich's Straubing Campus for Biotechnology and Sustainability has been active in the field of enzyme engineering and biocatalysis for more than a decade. The Straubing Campus of TUM develops processes for sustainable and environmentally friendly chemical production. For this, natural scientists, engineers, social scientists and economists work closely together on site in teaching and research. This project is a joint project with two national research groups and an industrial partner with fundamental and renowned expertise in the hydrogen utilization, electrochemistry and scaling up technologies.

Requirements

- Excellent degree in biotechnology, biochemistry, biology, chemistry or related sciences.
- In-depth knowledge and hand-on experience in molecular biology and protein chemistry
- Knowledge in biocatalysis, enzymatic cascades and instrumental analytics is desirable
- Curiosity and interest in scientific issues.
- High level of commitment as well as teamwork and communication skills.

We offer

- As a TUM doctoral student, you will become a member of the TUM Graduate School and benefit from an extensive qualification and continuing education program, funding for international travel, and target group-specific services and consulting.
- Remuneration is in accordance with TV-L, level 13 (65%), and the appointment is limited to three years.
- Severely disabled applicants will be given preference in the event of otherwise essentially equal suitability.
- The Technical University of Munich aims to increase the proportion of women; applications from women are therefore expressly welcomed.

Application
Please send your detailed application including (CV (max. 2-pages), motivation letter (max. single page), academic record and proof of practical experiences) as a single PDF file by e-mail with the keyword (Synhydro) until 20th of November to

Technical University of Munich
Chair of Chemistry of Biogenic Resources
Dr. Ammar Al-Shameri
bew_cbr@cs.tum.de