

Offer for Master Thesis (m/w)

At **TUM Campus Straubing for Biotechnology and Sustainability**, the **Chair of Chemistry of Biogenic Resources (Prof. Volker Sieber)** deals with the development of chemical and biotechnological processes for the conversion of biomass to ground chemicals, biofuels, and fine chemicals. For this work, the focus of research is on protein biochemistry (enzyme engineering), molecular biology (cloning, mutagenesis), microbiology (biotransformation, fermentation), chemical (organic synthesis, heterogenic catalysis), & analytical methods (chromatography, spectroscopy, electrophoreses).

In the field of **Identification and Characterization of New Keto Acid Decarboxylases for the productions of Fine Chemicals**

Goal

- Expression and purification of new enzymes
- Development of *in vitro* enzymatic assays and characterization of different parameters (buffer, pH_{opt}, T_{opt}, etc.)
- Development of possible *in vitro* cascade reactions

Requirements

- Majoring in biochemistry, chemistry, biology, biotechnology, or related science majors with prove of above average academic performance in the past
- Having experience working with enzymes
- Curiosity and interest in scientific problem solving
- Strong dedication, soft skills, and creative thinking

We offer

- Balanced supervision and weekly scientific seminars
- A young and international team of talented scientists
- Working at the new TUM Campus Straubing of Biotechnology and Sustainability
- Support for finding accommodation
- Possibility of providing a Hiwi position
- Possibility of authorship in publication

Application

I am looking forward to receiving your application. Regarding any inquiries contact me by email.

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For additional cap stone projects in related subjects feel also free to contact us.