CALL FOR APLICATION

The Werner-Siemens Chair of Synthetic Biotechnology at the TUM School of Natural Sciences,Technical University of Munich in Garching, has an opening for

Master's/Bachelor's Thesis & Research internship

On the topic

Enzymatic Hydrolysis of Fruit Processing By-products for Enhanced Valorization

As part of our research at the Werner-Siemens Chair of Synthetic Biotechnology, we investigate the valorization of food processing by-products and residual biomass. This project focuses on the enzymatic hydrolysis of fruit processing by-products to release valuable organic compounds, particularly sugars. The current goal is to generate experimental data and then they will be used to evaluate enzyme performance and develop a data-driven model for enzyme selection and optimization of the hydrolysis process.

Your tasks:

- Preparation of materials for enzymatic hydrolysis
- Enzymatic hydrolysis and dynamic sampling
- Sample post-treatment, analysis (e.g., HPLC) and data evaluation
- Isolation and preparation of enzymes

Your Profile:

We are looking for a motivated, responsible, and detail-oriented student interested in experimental research. A background in biotechnology, biochemistry, food technology, bio/chemical engineering, or a related field is preferred but not mandatory. Previous experience with enzymatic processes, microbiology, or analytical methods is a plus.

Application:

Interested? Looking forward to receiving your application materials via email, including your preferred starting date.

Xuze Wang

xuze.wang@tum.de

Werner Siemens-Lehrstuhl für Synthetische Biotechnologie (WSSB)
Department Chemie, Technische Universität München (TUM)
Lichtenbergstraße 4, 85748, Garching bei. München

Prof. Dr. Thomas Brück

Technische Universität München
School of Natural Sciences
Department Chemie
Werner Siemens-
Lehrstuhl für Synthetische Biotechnologie

Lichtenbergstraße 4
85748 Garching
brueck@tum.de
Tel. +49 89 289 13253

Sekretariat
Tel. +49 89 289 13250
Fax +49 89 289 13255

Kontoinhaber:
Freistaat Bayern
IBAN-Nr.:
DE10700500000000024866
Bayerische Landesbank
BIC: BYLADEMM
Steuer-Nr 143 / 241 / 80037
USt-IdNr.: DE811193231