

The TUM Campus Straubing for Biotechnology and Sustainability (TUMCS), an Integrated Research Center of the TUM, conducts interdisciplinary research to develop new processes, molecules and materials for a sustainable bioeconomy. At the TUMCS, the TUM is cooperating with the Weihenstephan-Triesdorf University of Applied Sciences. Within the recently launched Synthetic Biology Foundry ([SynBiofoundry@TUM](https://www.synbiofoundry.tum.de)) we offer a high throughput technology platform to develop and optimize biotechnological production processes for academia and industry. The SynBiofoundry at the TUM Campus Straubing for Biotechnology and Sustainability invites applicants for

2 PhD and 2 Postdoc positions (m/f/d) for our Synthetic Biology Foundry

to further advance the facility in each of the segments of the **Design-Build-Test-Learn** Cycle and to conduct interdisciplinary research for sustainable biotechnological solutions.

Your responsibilities:

The candidates are expected to:

- Advance and support the further development of the Synthetic Biology Foundry infrastructure and establish a standard setup for an automated, high throughput Design-Build-Test-Learn Cycle
- Pursue project-related research and work closely together with our industry partners
- Develop and conduct independent research projects to develop new biocatalytic systems for sustainable biotechnological applications
- Supervise young researchers and students

Your Qualifications:

- An excellent M.Sc. / PhD (or Equivalent) in the life, natural or computer sciences with a proven record in one of the areas of the Design-Build-Test-Learn Cycle (further information on the expected competencies can be found [here](#))
- Desirable methodological skills: bioinformatics esp. protein modeling (Design), advanced genetic engineering methods and automation (Build), high throughput screening and analytical chemistry (Test), computational biology, machine learning and the analysis of OMICS data (Learn)
- High motivation with determination to tackle interdisciplinary research questions
- Good communication skills to interact with scientists from a variety of backgrounds, while being a team-player who enjoys working in a highly collaborative and fast evolving research environment

Our Offer:

We offer 2 PhD (65%) and 2 full-time postdoc positions starting at the earliest possible date. Salary and benefits are in accordance with the public service wage agreement of the Free State of Bavaria (TV-L E13). The contract is initially limited to 2 years.

As an equal opportunity and affirmative action employer, we explicitly encourages applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies. Preference will be given to disabled candidates with essentially the same qualifications.

How to Apply

Applications should be sent as a single pdf file by e-mail to info.synbiofoundry@tum.de. Please include a CV, a brief summary of your previous work experience, a short statement of why you chose to apply, a list of publications, and contact information of 3 references. Applications can be submitted until **17.01.2020**. Please indicate the Job-ID: SynBiofoundry2021 and the desired research area (Design, Build, Test or Learn) in the subject line.

For further information, please contact info.synbiofoundry@tum.de.

As part of your application, you provide personal data to the Technical University of Munich (TUM). Please view our privacy policy on collecting and processing personal data in the course of the application process pursuant to Art. 13 of the General Data Protection Regulation of the European Union (GDPR) at <https://portal.mytum.de/kompass/datenschutz/Bewerbung/>. By submitting your application you confirm to have read and understood the data protection information provided by TUM.