

The Laboratory of Chemical Process Engineering at TUM's Campus in Straubing is looking for a

Ph.D. Student (f/m/d) for Process development for renewable fuel production combining electrical energy with biogenic feedstocks

We are looking for a motivated Ph.D. student interested in developing novel processes that boost the production of bio-based liquid fuels through electrical energy supplied in electro-chemical / electro-biotechnological reactor concepts. Together with other research groups and industrial partners, we want to establish such processes up to demonstration scale at the Green Fuel Center in Straubing. The candidate will develop concepts and validate them using benchtop and mini-plant scale experiments.

Expected qualification:

- High motivation and commitment to scientific excellence
- Above-average Master Degree / Diploma in chemical engineering or biochemical engineering, or related disciplines
- Experience in/Dedication to: planning and conducting chemical experiments, chemical analysis, process modeling/simulation, and optimization
- Team player skills and enthusiasm to work in a multi-disciplinary, collaborative environment
- Excellent command of the English language
- Interest in leading undergraduate students and participating in our teaching efforts

Our Offer:

- Deep immersion in modern research on renewable fuels using state-of-the-art laboratory infrastructure
- TUM is one of the most renowned universities worldwide. TUM's graduate school offers inspiring and challenging Ph.D. programs, which supplement the research training with outstanding opportunities for career development, continued education, and life-long learning.
- The Straubing Campus for Biotechnology and Sustainability is a fairly new integrative research center to provide the technological and economic foundation for a more sustainable economy through highly interdisciplinary research. Situated on the Bavarian forest gate, directly on the Danube river, Straubing is the local hub for social and cultural life in the region.
- We offer a competitive salary and benefits depending on work experience and seniority under the public service wage agreement of the Free State of Bavaria - TV-L E13 (100%). The position is initially limited to 1.5 years, with the option for extension to reach the Ph.D. (typically 3-4 years).
- As an equal opportunity and affirmative action employer, TUM explicitly encourages applications from women and 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.

Application Process:

We are looking forward to receiving your comprehensive application in English, which includes:

- Cover letter/Motivation letter (~1 page)
- CV
- Complete set of academic transcripts of records (German or English)
- Transcripts of records of last secondary school degree, e.g., Abitur (German or English)
- Complete contact information for two references

We appreciate the application is compiled into a **single, reasonably compressed PDF file** and sent via email to burger@tum.de. Please include the keywords “Application for Ph.D. Position 2” in the subject line. If you are interested in more than one open position in our laboratory, please send only one application and those positions.

Review of applications will begin immediately and continue until the position is filled.

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For further information, please contact:

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