

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 electrochemical / electro-biotechnological reactor concepts. Together with other research groups and industrial partners, we want to establish such processes up to demonstration scale at TUM's Green Fuel Center. 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 engineering (chemical engineering, 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 region's local hub for social and cultural life.
- 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 non-permanent, aiming to reach a 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 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 at least:

1. Cover letter/Motivation letter (~ 1 page)
2. Curriculum Vitae
3. Complete set of academic transcripts of records*
4. Transcripts of records of last secondary school degree, e.g., Abitur*

*For the application, you can send the transcripts in any of the following languages: German, English, French, Italian, or Spanish (Translations do not have to be certified for applying, only after acceptance.)

We appreciate the application is compiled into a **single, reasonably compressed PDF file** and sent via email to burger@tum.de. Please include "Application for Ph.D. Position 4" in the subject line. If you are interested in more than one open position in our laboratory, please send only one application and indicate which positions you are interested.

Review of applications will begin immediately and continue until the position is filled. While this job offer is still online on our website (<http://ctv.cs.tum.de/>), it is still open for applications.
(Publication date: 05.09.2022.)

For further information, please contact:

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