

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

## **Ph.D. student or Post-Doc (f/m/d) for Conceptual design of processes to close the carbon cycle**

We are looking for a motivated Ph.D. student or post-doc interested in developing novel processes that capture and utilize CO<sub>2</sub> and mitigate the emission of greenhouse gases. In our current group activities, we are investigating novel processes for direct air capture of CO<sub>2</sub>. In modeling and lab-scale experiments, we assess the feasibility and performance of novel separation units. You will design and engineer one specific process recently conceptualized by our team. The work is embedded in collaboration with other excellent partners in the field.

### **Expected qualification:**

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

### **Our Offer:**

- Deep immersion in modern research on CO<sub>2</sub> capture and utilization 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 providing the technological and economic foundation for a more sustainable economy through highly interdisciplinary research. Straubing is the region's local hub for social and cultural life, situated on the Bavarian forest gate, directly on the Danube river.
- 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%). Part-time is possible if requested by the candidate. The position is non-permanent, allowing reaching a Ph.D.
- 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 German or English, which includes at least the following:

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

For post-doc applicants:

5. List of publications
6. List of projects involved and respective own role

\*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 application, only after acceptance.)

We appreciate that the application is compiled into a **single, reasonably compressed PDF file** and sent via email to [burger@tum.de](mailto:burger@tum.de). Please use "Application for Ph.D. Position 3" or "Application for Post-Doc Position 3" as the subject line and **indicate when you would be available to start the position**.

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 in.

**The deadline for applications is March 31<sup>st</sup>, 2023.**

For further information, please contact:

Prof. Dr.-Ing. Jakob Burger  
Laboratory of Chemical Process Engineering  
Tel. +49 9421 187 275  
[burger@tum.de](mailto:burger@tum.de)  
<http://ctv.cs.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.