

Ph.D. Student (f/m/d) Polymer recycling using green designer solvents

The Biothermodynamics group at TUM School of Life Sciences is looking for a motivated Ph.D. student interested in designing green solvents for efficient and sustainable plastics recycling. The project is in cooperation with Imperial College London and Chemical Process Engineering group at TUM Campus Straubing for Biotechnology and Sustainability. Your tasks include the design and construction of an advanced high-throughput setup for measuring polymer dissolution and the collection and theoretical evaluation of experimental data.

Your profile

- M.Sc. in chemical engineering, material science, chemistry, or related disciplines
- Experience in polymer science, planning and conducting chemical experiments, and DSC, FTIR, XRD, TGA is desirable
- Motivation for shaping innovative solutions to global challenges
- Excellent written and verbal communication skills
- Excellent command of English language and advanced German language skills
- Enthusiasm to work in an interdisciplinary and intercultural team
- Enthusiasm to travel and conduct research abroad
- Interest in participating in teaching and supporting undergraduate students
- Ability to prioritize work to meet deadlines, and work autonomously to reach the project goals

We offer

- Working at TUM, one of the most renowned universities worldwide
- Access to a state-of-the-art laboratory infrastructure
- A 2.000 € per month stipend for four years
- Research stay at Imperial College (total of 12 months distributed through the project)
- TUM's graduate school training opportunities for career development, continued education, and life-long learning
- 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

Applications, in English or German, should include:

- A one-page motivation letter.
- Curriculum vitae, including details of the scientific career with a list of publications (if applicable).
- Complete set of academic transcripts of records

We are looking forward to receiving your application **as a single pdf-document sent to mirjana.minceva@tum.de by 07.10.2022.**

For further information, please contact:

Prof. Dr.-Ing. Mirjana Minceva

Biothermodynamics

TUM School of Life Sciences

mirjana.minceva@tum.de

Tel. + 49 8161 71-6170

More information

<https://www.igsse.gs.tum.de/en/igsse/research-programs/joint-academy-of-doctoral-studies/>

<http://bt.wzw.tum.de>

<https://www.wzw.tum.de>

Data protection information

When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. With regard to personal information, please take note of the [Datenschutzhinweise gemäß Art. 13 Datenschutz-Grundverordnung \(DSGVO\) zur Erhebung und Verarbeitung von personenbezogenen Daten im Rahmen Ihrer Bewerbung.](#) (data protection information on collecting and processing personal data contained in your application in accordance with Art. 13 of the General Data Protection Regulation (GDPR)). By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.