

The **Leibniz Institute for Food Systems Biology at the Technical University of Munich (Leibniz-LSB@TUM)**, a legal foundation under civil law in Freising, is a research institution of the Leibniz Association that combines methods of biomolecular basic research with analysis methods of bioinformatics and analytical high-performance technologies to investigate the complex interplay between the human organism and food ingredients.

The research group “**Molecular Modeling**” at Leibniz-LSB@TUM is looking for a

## PhD student

to start on 27/01/2025 (65% TV-L 13). The position is to be filled for initial 1 year with the option to extend it by another 3 years.

### Project

Advancements in structural biology and AI-guided protein structure design are providing new insights into the structures of receptors responsible for food taste and odor perception. The project aims to make use of the structural information of the receptors for structure-based ligand design projects in order to develop prediction methods to identify new food-derived modulators of taste and odorant receptors.

### Area of responsibility includes

- Molecular docking
- AI-based methodologies for protein structure prediction and structural investigations
- Classical explicit solvent/membrane Molecular Dynamics simulations

### Requirements and desired expertise:

The ideal applicant has a strong background in physical/computational chemistry, as well as data analysis and solid English-language skills. Experience with programming is highly recommended. Above-average interest in the topic, we consider self-motivation and the ability to face new professional challenges as self-evident prerequisites. The ability to work independently, outstanding team skills and organizational aptitude round-out the ideal profile.

### In addition to a highly stimulating workplace where your performance counts, we offer

- a performance-related salary in accordance with TV-L, in-line with your personal qualifications and the personal prerequisites
- an interesting and varied task area in the field of university research
- a motivated team that is looking forward to welcoming you
- scientific development opportunities in an international and interdisciplinary research environment
- training and advanced qualifications within the Leibniz Association and the Technical University of Munich
- flexible working times and therefore good compatibility of work and family
- company pension scheme
- special annual payment

In the case of essentially reciprocal suitability, severely-disabled applicants as defined SGB IX will be preferred.

Please address any questions on current topics to Assoz. Prof. Dr Antonella Di Pizio ([a.dipizio.leibniz-lsb@tum.de](mailto:a.dipizio.leibniz-lsb@tum.de)) and get in touch if you think you would be interested in working as part of our team.

Send your application with the usual documents, containing your comprehensive CV and transcripts as well as names of three potential references electronically as a PDF file to the following address, citing the reference number **2024-15-S3-ADP**:

Anja Albrecht (Human Resources Department) [recruiting.leibniz-lsb@tum.de](mailto:recruiting.leibniz-lsb@tum.de).

**Take advantage of this opportunity and contact us!**

### Notes on data protection

As a part of your application for a position at Leibniz-LSB@TUM, you have submitted personal data to us. Please note [our data protection information](#) in accordance with Art. 13 of the General Data Protection Regulation (GDPR) regarding the collection and processing of personal data in the context of your application. By submitting your application, you confirm that you have taken note of the data protection information of Leibniz-LSB@TUM.