



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 currently looking for a

## Doctoral student (m/f/d)

to start in January 2022. The position (65%, TV-L 13) is to be filled for a maximum period of 4 years.

### Research project

The straightforward identification of bitter taste peptides in food is largely hampered by the enormous complexity of food peptidome. The DFG-funded open position is devoted to improve the prediction of food-derived bitter peptides. The applicant, in close collaboration with colleagues from food chemistry and molecular biology, will investigate the molecular recognition of bitter peptides and develop predictive machine learning models making use of structural data from peptides and bitter taste receptors.

### Your area of responsibility includes

- Protein structure prediction
- Peptide docking
- QSAR and machine learning modelling
- Proteochemometric modeling

### Requirements

The ideal applicant has

- a master's degree in degree in physics, bioinformatics, chemistry, or a related field,
- a sound basic knowledge of computational modeling, as well as data analysis. Familiarity with the Linux environment, scripting and programming skills are highly welcome.
- ability to work independently and focused
- solid English communication skills
- organizational skills

### Work environment

Together with internationally recognized experts, you conduct research aimed at improving foodstuffs and promoting healthy human nutrition.

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

- scientific development opportunities in an international and interdisciplinary research environment
- possibilities for further training and advanced qualifications within the Leibniz Association and the Technical University of Munich
- a motivated team that is looking forward to welcoming you
- flexible working times and therefore good compatibility of work and family
- company pension scheme

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

Please address any research related questions to Dr. Antonella Di Pizio (a.dipizio.leibniz-lsb@tum.de) and send your application with your comprehensive CV and transcripts as well as names of three potential references electronically to the following address, citing the reference number **2021-12-S3-ADP**:

Anja Magalowski (Human Resources Department) recruiting.leibniz-lsb@tum.de.

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