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

The working group "**Molecular Modeling**" at Leibniz-LSB@TUM is looking for a

Post-doctoral fellow (m/f/d)

to start on 01/08/2023. The position is to be filled for a period of 2 years.

Project: Advancements in structural biology are providing new insights into the structures of proteins responsible for food taste and odor perception. The project aims to use the recently solved structure of the bitter taste and odorant receptors in complex with the G protein to capture the main protein-protein interaction leading to activation. This will pave the basis for developing prediction methods, and develop structure-based models to identify new food-derived tastant and odorant compounds. The project is in close collaboration with the experimental groups in the institute.

Area of responsibility includes:

- Modeling tasks dealing with taste and odorant receptors: classical explicit solvent/membrane Molecular Dynamics simulations, enhancing sampling Molecular Dynamics, docking, virtual screening
- Taking on organizational tasks and writing grant applications

Requirements:

The ideal applicant has a strong background in computational chemistry, as well as data analysis and solid English-language skills. Previous experience in modeling G protein-coupled receptors or membrane proteins 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 E13, in-line with your personal qualifications and the personal prerequisites
- 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
- special annual payment

**Leibniz Institute for Food Systems Biology
at the Technical University of Munich**
Lise-Meitner-Straße 34, 85354 Freising
Internet: www.leibniz-lsb.de

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

More information on the working group can be found here: https://www.leibniz-lsb.de/en/research/research-sections/section-iii/

Please address any questions on current topics to Dr. Antonella Di Pizio (a.dipizio.leibniz-lsb@tum.de). 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 **by 30.06.2023** to the following address, citing the **reference number 2023-04-S3-ADP**

Katharina Ranner (Human Resources Department) recruiting.leibniz-lsb@tum.de.

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 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.

Leibniz Institute for Food Systems Biology
at the Technical University of Munich
Lise-Meitner-Straße 34, 85354 Freising
Internet: www.leibniz-lsb.de