

Postdoctoral candidate (m/f/d)

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 / Section III** is looking for

1 post-doctoral fellow, to start on 01/12/2026

The position is to be filled for a period of 2 years.

Research 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 olfactory receptors for structure-based ligand design projects in order to develop prediction methods to identify new food-derived modulators of olfactory receptors and to capture the molecular bases of olfactory perception. The project is in close collaboration with the experimental groups in the institute.

Key Responsibilities

- Molecular Dynamics simulations
- Enhanced sampling Molecular Dynamics simulations
- AI-based methodologies for protein structure prediction and cofolding
- Machine learning guided virtual screening
- Taking on organizational tasks and writing grant applications

Your Profile

The ideal applicant has a strong background in computational biophysics, 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.

We offer you

- a performance-related salary in accordance with TV-L (depending on the qualification until EG 14 TV-L)
- a thorough induction into your area of responsibility
- a diverse range of training and development opportunities for professional and personal development
- opportunities for health promotion and work-life balance
- an appreciative, collegial working atmosphere with flat hierarchies and short decision-making paths
- an interesting and responsible field of work in the context of non-university cutting-edge research
- flexible working hours with the option of mobile working (home office)
- company pension scheme (VBL) and annual bonus payment

- a motivated team that is looking forward to welcoming you!

Equal Opportunities and Diversity

Leibniz-LSB@TUM is committed to equal opportunities, diversity, and a respectful working environment. We welcome applications regardless of gender, nationality, ethnic or social origin, religion or belief, disability, age, or sexual orientation and identity.

Applicants with severe disabilities or those with equivalent status will be given preferential consideration in cases of essentially equal qualification (§ 2 SGB IX).

Contact and Application

For any questions on current topics, please contact:

Prof. Dr. Antonella Di Pizio (a.dipizio.leibniz-lsb@tum.de).

More information on the working group can be found here: <https://www.leibniz-lsb.de/forschung/forschungssektionen/sektion-iii>.

Please send your application, including a comprehensive CV and transcripts as well as names of three potential references, as a PDF file and stating the reference number **2026-15-MM-ADP** via email to:

Katharina Ranner (Administration) recruiting.leibniz-lsb@tum.de.

We look forward to receiving your application!

Data Protection Notice:

As part of your application for a position at Leibniz-LSB@TUM, you will transmit personal data. Please refer to [our data protection information](#) in accordance with Article 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 Leibniz-LSB@TUM data protection information.