



Student Research Assistant (Hiwi) Position Available

About us:

The **Max Planck Institute of Biochemistry** (MPIB) in Martinsried, Munich is one of the leading international research institutions in the fields of biochemistry, cell and structural biology and biomedical research. Join an interdisciplinary team of scientists at the **Department of Cellular and Molecular Biophysics**, gain mentorship, develop your skillset, and contribute to groundbreaking research.

About the Project:

Our research focuses on designing minimalistic biomolecular systems that mimic the fundamental properties of biological life. Specifically, we are investigating the properties of gene expression machinery in the environment of model lipid membranes. Ultimately, we aim to develop programmable, transcription-based platforms capable of molecular self-organization. This innovative approach holds significant potential for advancements in synthetic biology and nanotechnology, and could deepen our understanding of complex biological processes.

Your Role and Responsibilities:

- Learn and apply various techniques, such as fluorescent microscopy, PCR, in vitro transcription, cell-free expression, RNA design, bioorganic chemistry, high-pressure liquid chromatography, microfluidics, and more.
- Discuss, plan, and execute experiments and protocols.
- Analyze, summarize, and report results of experiments.
- Prepare materials for experiments.
- Assist in testing and optimizing novel experimental setups.
- Communicate and collaborate with a team, contributing your insights.

Duration: 1st April 2025 – 31st October 2025

Hours: Up to 83 hours per month

Compensation: €13-14 per hour (gross), depending on educational qualifications.

Qualifications:

- You must be enrolled at a German university.
- Strong interest in biochemistry, biophysics, molecular biology, or related fields.
- Strong analytical and organization skills, attention to detail. Ability to work independently and collaboratively.

Valuable skills:

- Basic knowledge and experience with fluorescent microscopy, or other relevant techniques.
- Experience in biochemical “wet” laboratory.
- Experience with image (e.g. ImageJ) and/or data (e.g. GraphPad, Origin) analysis software.

How to apply:

Join our team and contribute to groundbreaking research in a dynamic and collaborative environment! We encourage highly motivated and talented students to apply: send your CV and motivation letter describing why you are a good fit for the role to Dr. Adam Mamot (mamot@biochem.mpg.de) by **March 9th, 2025**.