

Postdoctoral Research Position in Structural Biology and Molecular Modeling of Dy- namic Protein Machineries



The Institute of Biochemistry at the Faculty of Chemistry and Pharmacy of the University of Freiburg and the DFG Collaborative Research Center 1381 “Dynamic Organization of Cellular Protein Machineries” are recruiting a

Post-doctoral Researcher (m/f/d) in Structural Biology and Molecular Modelling

The Collaborative Research Center 1381 “Dynamic Organization of Cellular Protein Machineries” (<https://www.sfb1381.uni-freiburg.de>) investigates the assembly, function and dynamic interplay of the molecular machineries that allow our cells to function. In this project we use structural biology (X-ray crystallography and cryo-EM) to elucidate the structure and function of dynamic multi-component protein complexes required for crucial task in metabolism, signaling, repair, and replication. In its second funding period, the CRC works towards creating models and *in-silico* representations of cellular machineries that can be integrated into efficient simulations of complex systems. New methods for the analysis and realization of protein dynamics will be developed and applied to obtain a picture of the molecular mechanisms that drive cellular processes in unprecedented detail.

Your Profile

- You are a proactive, enthusiastic researcher with an interest in the interface of molecular sciences and bioinformatics.
- You have (or are close to having) a doctorate in Biochemistry, Chemistry, Biology, Computer Sciences or a related field.
- You have profound knowledge of molecular life sciences, with a background in protein biochemistry and/or structural biology
- You are experienced in programming (python, MATLAB, C++, etc.) and have an interest in data visualization and computer animation (Blender, Maya).
- You are a team player, at ease when working in an international environment and a keen problem solver.
- You have excellent scientific writing skills and are interesting in pursuing an independent career in science.

Please apply with the following documents in electronic form (ideally a single PDF):

- A letter of intent: why you are interested in our work and how does your previous experience or your interests qualify you for the project (up to 1,500 words)
- A *curriculum vitae* and list of publications (if applicable)
- Copies of your university degree(s) with grades (B.Sc. M.Sc. PhD certificate / Diploma certificate and transcript)
- A short summary of your PhD thesis (up to 1,000 words)
- The names and contact details of two references.

The position is a full-time employment according to Germany statutory salary scale (TV-L E13). It is initially limited to 2 years, with the possibility of an extension. The University of Freiburg is an equal opportunity employer. Applications by women are explicitly encouraged. Please direct your applications and inquiries to **Prof. Dr. Oliver Einsle, Institute of Biochemistry, University of Freiburg, Albertstrasse 21, 79104 Freiburg, Germany**. Email: einsle@biochemie.uni-freiburg.de. The deadline of this call is July 31st, 2023.