

## Postdoctoral Research Position in Structural Biology and Design of Protein Nanopores



The Institute of Biochemistry at the Faculty of Chemistry and Pharmacy of the University of Freiburg and the Clusters4Future action nanodiagBW are recruiting a

### **Post-doctoral Researcher (m/f/d) in Structural Biology and Design of Protein Nanopores**

NanodiagBW is a research consortium with partners from academia and industry that uses nanopore technology for molecular diagnostics (<https://www.hahn-schickard.de/en/nanodiag>). For the development of miniaturized analysis systems we employ protein nanopores to read epigenetic marks in high-throughput and at large scale and integrate the obtained data into comprehensive picture of individual disease states. In the present project, the focus will be on the production, characterization and engineering of protein nanopores, their embedding in membrane environments and functional testing using state-of-the-art electrophysiology.

#### Your Profile

- You are a proactive, enthusiastic researcher with a keen interest in membrane biochemistry, electrophysiology and structural biology.
- You have (or are close to having) a doctorate in Biochemistry, Chemistry, Biology, or a related field.
- You have profound knowledge of molecular life sciences, with a background in protein biochemistry and/or structural biology. Crystallography and cryo-EM skills are welcome.
- 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](mailto:einsle@biochemie.uni-freiburg.de). The deadline of this call is July 31<sup>st</sup>, 2023.