

The research group of Prof. Dr. Bettina Warscheid at the Faculty of Biology of the University of Freiburg is looking for a

Postdoctoral Scientist in Structural Proteomics

The chair for Functional Proteomics is part of the Clusters of Excellence BLOSS and CIBSS – Centre for Integrative Biological Signalling Studies – and a leading group in high-resolution mass spectrometry (MS)-based proteomics. Research in the group is focussing on the molecular and functional characterization of organelles (mitochondria and peroxisomes) and their central protein machineries as well as disease-related signalling networks. Structural proteomic methods are here key for studying the molecular architecture, subunit arrangement, and dynamics of distinct protein complexes as well as larger protein assemblies and beyond. To advance our research with focus on structural proteomic projects, we are looking for a new, high-potential team member.

Your tasks:

- design, perform, and evaluate MS-based structural proteomic studies
- implement and advance strategies for *in vitro* and *in vivo* cross-linking (XL) combined with MS
- develop and establish native MS technologies for the study of large protein complexes
- advanced bioinformatics and statistical analysis of structural proteomic datasets
- project management and communication with project partners
- writing of manuscripts and project proposals
- participation in mentoring of students

Your profile:

- PhD degree in Biology, Biochemistry, Chemistry, Physics, or a related Life Science discipline
- practical experience in high-resolution quantitative MS and native MS including sample preparation
- sound experience in bioinformatic data processing and biostatistics
- skills in common programming/scripting languages (in particular Python or R)
- high degree of analytical thinking and creativity
- excellent communication, writing, and organizational skills
- highly self-motivated and enthusiastic for structural proteomic research

We offer:

- an interdisciplinary and supportive team
- a lab with excellent infrastructure and latest instrumentation
- an excellent scientific environment in an international research community
- participation in further education, career development, and training opportunities

The position is available immediately, initially for one year with the potential for extension for three years. The University of Freiburg is an equal opportunity employer. Applications of women are encouraged. Handicapped candidates with equivalent qualifications will be given preference. Interested candidates should send an application including CV, study certificates, areas of expertise and interests, list of publications, and the names and addresses of two referees as **one single PDF** file via email to Prof. Dr. Bettina Warscheid (bettina.warscheid@biologie.uni-freiburg.de).