



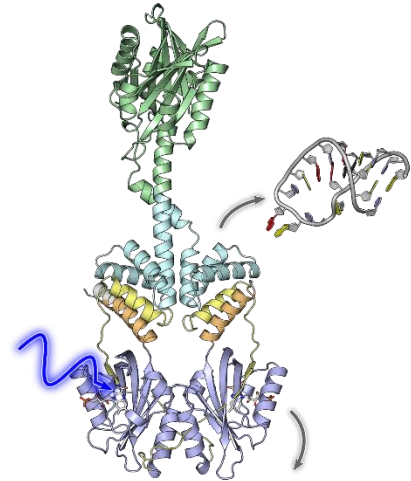
UNIVERSITÄT
BAYREUTH

Doctoral student (f/m/d) Biochemistry

We are currently seeking a talented PhD student to join our team at the Department of Biochemistry of the University of Bayreuth. We investigate **sensory photoreceptors** which enable the control by light of behaviour and physiology in Nature and **optogenetics**. We use an assortment of biochemical/biophysical techniques spanning molecular biology, protein biochemistry, optical spectroscopy, electrochemistry, protein engineering, high-throughput screening, synthetic biology and X-ray crystallography.

The present project, funded by the Deutsche Forschungsgemeinschaft within the Priority Program SPP 1926, focuses on the newly discovered **light-oxygen-voltage (LOV) receptor PAL** that **binds short RNAs under blue light**. We seek a molecular understanding of signal transduction in this and related LOV receptors. Empowered by such knowledge, we engineer photoreceptors and develop novel applications in **optoribogenetics**, a hitherto inaccessible branch of optogenetics.

More information is available on request and in our recent publications, cf. e.g., *Nat Commun* 2015 (26648256), *ACS Synth Biol* 2016 (27002379), *Nucleic Acid Res* 2016 (27744350), *Structure* 2017 (28502782), *Nat Commun* 2017 (28819239), *Chem Rev* 2018 (29984995), ***Nat Chem Biol* 2019 (31451761)**.



The ideal candidate holds an M.Sc. degree in Biochemistry, Biology, Biophysics, Chemistry or a related discipline. Enthusiasm for experimental research, self-reliance, ability to work in a team and good English skills are expected. Pertinent training and experience in one or several of the following subjects are of advantage: molecular biology, protein biochemistry, protein crystallography, biomolecular spectroscopy and cell culture.

The Department of Biochemistry at the University of Bayreuth provides top-notch instrumentation for biochemistry, electrochemistry, protein crystallography, optical spectroscopy, mass spectrometry and flow cytometry. By offering excellent training and research infrastructure, the institute and the university create a highly interdisciplinary and stimulating environment for biochemical projects. The candidate can enrol in a structured PhD program within the University of Bayreuth graduate school BayNAT. The position is available immediately for initially three years, and salary is according to the TV-L scale.

Applications from handicapped persons will be favored when all other qualifications are equal. The University of Bayreuth is an equal opportunity employer and we therefore especially encourage women to apply. **Applications** should be sent as a **single PDF** to the below email address and comprise **CV** and **contact information for two referees** willing to provide reference letters.

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