

Vacant Master project position at the Lawrence Berkeley National Laboratory



Are you interested in spending a research stay at one of the most renowned research institutes in the world? Are you down to become a part of a Structural Biology group? Then Please reach out to us!

The research group of Dr. Jan Kern, Dr. Junko Yano and Dr. Vittal Yachandra are looking for a highly motivated and interested Master student (m,f,d) in Biology, Biochemistry, Biophysics and/or Chemistry for a short term research stay at the Institute of Molecular Biophysics at the Lawrence Berkeley National Laboratory in Berkeley (California, USA). You would become part of the subgroup “reaction center”, which is aiming to investigate and understand how photosynthetic active membrane proteins are functioning by using x-ray structure analysis and protein crystallography. We are especially interested in the bacterial reaction center (bRC) of *Rhodospseudomonas sphaeroides*.

Your responsibility will be to help us characterizing the protein purification of bRC and establishing an improved crystallization protocol. Following that, we have the chance to conduct time-resolved crystal structure measurements to investigate the electron transfer on a molecular level. Doing that, you will gain hands-on experiences on biochemical techniques like chromatography, gel electrophoresis and spectroscopy. In addition, you have the chance to actively participate in the time resolved diffraction experiments utilizing X-ray lasers in Stanford and Japan.

Experiences in working in chemical and biological labs are necessary, knowledge in protein crystallography are favorable but not required. For questions or interest please reach out to Moritz (mkretzschmar@lbl.gov). For applying to this position please send a current CV and motivation letter to the same email address.

