

# PhD and postdoc openings in Biophysics (Grenoble, France)



## Structural dynamics of light-sensitive proteins studied by time-resolved crystallography at XFELs

Serial femtosecond crystallography (SFX) at X-ray free electron lasers (XFEL) allows studying the structural dynamics of crystalline proteins by means of time-resolved crystallography (TR-SFX). We apply TR-SFX to explore conformational changes after photon absorption by various light-sensitive proteins on a broad time scale ranging from sub-picoseconds to seconds (Nature Chemistry 10, 31 (2018)). These animate structures obtained by static SFX (J Phys Chem Lett 7, 882 (2016); Nature 539, 43 (2016)).

We have immediate openings for two postdoctoral researchers and one PhD student at the *Institut de Biologie Structurale* ([www.ibs.fr](http://www.ibs.fr)) in Grenoble, France, to study the structural dynamics of light-sensitive proteins by time-resolved serial crystallography at XFELs and potentially future 4<sup>th</sup> generation synchrotrons.

At the postdoctoral level, we are looking for highly motivated individuals with a proven record in macromolecular crystallography with a keen interest in data processing and handling and intermediate-state structure refinement.

At the PhD level, we welcome applications from students trained in protein biophysics, and preferably in crystallography.

If you are interested, please contact either Martin Weik ([weik@ibs.fr](mailto:weik@ibs.fr)) or Jacques-Philippe Colletier ([colletier@ibs.fr](mailto:colletier@ibs.fr)).