Diploma, PhD and Post-doc positions at the interface between physics and biology

Research Institute of Molecular Pathology (IMP) and Max F. Perutz Laboratories at the University of Vienna, Austria

We are an interdisciplinary group of physicists, neuroscientists structural biologists and physical chemists with expertise ranging from quantum optics to protein engineering. We are interested in fundamental questions at the intersection between biology and physics and development of new structural and functional methods for studying biological questions.

We have currently open PhD and Postdoc positions in development of new high resolution optical techniques **(super-resolution microscopy)**, methods for ultrafast **optical control and readout of neuronal activity** and projects targeted towards experimental and theoretical studies of the possible **relevance of quantum effects in biological systems.**

The successful candidate will be embedded in a highly multidisciplinary and collaborative environment at the Vienna Bio-center and will have campus wide access to various scientific resources and centers of the Max F. Perutz Laboratories (MFPL) and those of the Research Institute of Molecular Pathology (IMP). In addition to accomplish our goals she/he will be interacting and leveraging the strong presence and expertise of the quantum optics community at the University of Vienna and Vienna University of Technology.

We are particularly looking for candidates with one or more of the following attributes and backgrounds:

- A good knowledge in experimental optics, in particular ultrafast optics, spectroscopy, microscopy or quantum optics.
- Background / knowledge in biophysics, structural biology, protein design and expression or electrophysiology.
- Interest in research projects at the interface between physics and biology and the willingness to work into areas outside of the candidate's core training.

However, highly motivated and exceptional candidates with all backgrounds and interest in the above research areas might be considered.

Contacts: For inquiries please contact Alipasha Vaziri at alipasha.vaziri@univie.ac.at Applicants should send their CV, list of publications and contact information of three references to the above email address.

Further information: (see:http://vaziria.com/index_files/Alipasha_Vaziri_links.htm, http://www.imp.ac.at/, http://www.mfpl.ac.at/index.php?cid=960).