JOINT POSTDOCTORAL FELLOWSHIP POSITION

WITH THE SLAC NATIONAL ACCELERATOR LABORATORY IN THE U.S. AND THE CNRS - ECOLE NORMALE SUPÉRIEURE IN FRANCE.

The Linac Coherent Light Source (LCLS), a Directorate of the SLAC National Accelerator Laboratory, Stanford University, and the Computer Science Laboratory of the École Normale Supérieure (ENS) together with the Centre National de la Recherche Scientifique (CNRS, National Center for Scientific Research) in Paris, France seek a joint position for a Ph.D. Postdoctoral Scholar with research interests and experience in materials studies with ultrafast laser systems. Ideally, the candidate would also have interest and experience in phase retrieval for coherent diffractive imaging (CDI) and ptychography or general x-ray science.

This position will involve the development of a basic ultra-fast laser system to test newly developed algorithms for phase retrieval and for optical studies of materials, mainly in the THz regime. The first stage will be design and construction of a basic optical set-up followed by simple optical experiments, while the second stage will involve implementing some of the new techniques in the soft x-ray range. This will first involve test samples, and later magnetic and quantum materials using x-rays. Finally, the ultimate goal will be implementing developments at the X-ray Free Electron Laser source at SLAC.

Qualifications:
- Ph.D. in physics, mathematics, materials sciences, chemistry, or related fields.
- Experience in ultra-fast laser systems, preferably in the study of material systems.
- X-ray experience and some CDI experience preferred. Excellent candidates with only an ultra-fast background will be considered.
- Demonstrated effective written and verbal communications skills.
- Demonstrated ability to work and communicate effectively with a diverse population.
- Demonstrated ability to work both independently and in a team environment.

This is a one-year appointment beginning immediately, with the possibility of an extension to a second year. Interested candidates should submit the following to Joshua J. Turner via email at joshuat@slac.stanford.edu with ‘Joint Fellowship’ in the subject heading:
- Current CV
- Brief statement of research interest

The SLAC National Accelerator Laboratory is operated by Stanford University for the Department of Energy. The Computer Science Laboratory at École Normale Supérieure is a joint CNRS/INRIA Lab. The position will be fully supported by an ERC grant administered by CNRS, but the candidate will be in residence at SLAC in Menlo Park, CA during the experiments.