The Stanford Synchrotron Radiation Lightsource (SSRL), a Directorate of the SLAC National Accelerator Laboratory, Stanford University, and a national research facility, seeks a Ph.D. Postdoctoral Scholar.
This 3 year postdoctoral position will involve fundamental studies of the organic photovoltaic materials and structures, including morphology and molecular packing in bulk heterojunctions, in-situ studies of growth of photovoltaic materials and model studies of packing at interfaces. The goal of these studies is to determine how morphology and structure/packing affect carrier transport and performance of the structures. A variety of synchrotron-related characterization tools available at the Stanford Synchrotron Radiation Laboratory (SSRL) will be used including, surface and thin film X-ray diffraction, small angle X-ray scattering (SAXS), resonant soft X-ray scattering (R-SoXS), near edge X-ray absorption fine structure (NEXAFS) and ptychography.

This project is part of the Center for Advanced Organic Photovoltaics (CAOP). There will be significant interaction with students, postdocs and faculty members at Stanford University, University of California at Santa Barbara, Georgia Tech and KAUST in Saudi Arabia.

Qualifications:

- Ph.D. in physics, chemistry, materials sciences or related fields.
- experience with either synchrotron X-ray scattering techniques including thin film diffraction, SAXS, R-SoXS or with organic thin films. The ideal candidate will have experience with both.
- strong analytical and computation skills.
- effective written and verbal communication skills.
- ability to work and communicate effectively with a diverse population; good interpersonal skills are essential.
- ability to work independently and in a team environment.