Postdoctoral Position in Research on Hybrid Organic-Inorganic Perovskites

The Applied Energy Programs, a division of the SLAC National Accelerator Laboratory and Stanford University seeks a Postdoctoral Scholar in Chemical or Materials Sciences for research into hybrid metal halide perovskite semiconductors (HPSCs).

This position will utilize operando X-ray diffraction to simultaneously measure device properties and structure during operation. This work will focus on understanding degradation pathways in HPSC devices. One goal of this effort is to understand how the formation conditions affect the overall structural stability and how this affects the performance and lifetime of the device. This approach will be used to study numerous HPSC formulations and synthesis conditions.

This work will be part of a larger collaborative effort between SLAC and the National Renewable Energy Laboratory’s (NREL) hybrid perovskite solar cell team. This is a two-year appointment, with a possible extension to three years, available to begin immediately.

Required qualifications:

- Ph.D. in chemistry, materials sciences, physics or related fields.

Preferred Qualifications:

- Experience with synchrotron X-ray scattering is strongly preferred.
- Experience with PV materials
- Willingness to learn and bridge knowledge/experience gaps
- Ability to work independently and in a team environment.
- Effective communication with a diverse population and good interpersonal skills are essential
- Effective written and verbal communication skills.

Please send a letter with CV and list of publications to Laura Schelhas, schelhas@slac.stanford.edu
See for more information - sites.slac.stanford.edu/schelhas/