

## SSRL Postdoctoral Scholar for X-ray Microscopy and Tomography of 3D Solid State Batteries

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 with experience in X-ray microscopy/tomography. This position will involve *operando* and *ex situ* X-ray microscopy and tomography using synchrotron-based transmission X-ray microscopy and micro-computed tomography to investigate interfacial morphology changes in 3D solid-state sodium-ion batteries. The work will utilize the SLAC synchrotron sources SSRL and may include travel to other synchrotrons.

The postdoc will work within a rich scientific environment at SLAC and Stanford University and will have opportunities to cross-train in electrochemistry and X-ray characterization. The research project is part of a larger collaboration with groups from the University of Pennsylvania, Drexel University, University of Massachusetts, Brown University, and Xerion Advanced Battery Corp. The postdoc will have the opportunity to publish lead-author manuscripts and to build a career in energy storage technologies or a future teaching career.

For more information on current energy research at SSRL performed by the Weker group see <https://sites.slac.stanford.edu/wekergroup/>.

### Qualifications:

- Ph.D. in physics, materials sciences, chemistry, or related fields.
- Experience in X-ray microscopy preferred. Excellent candidates with other microscopy or X-ray characterization experience may be considered.
- Experience in electrochemical energy storage is preferred.
- Willingness to learn any knowledge/experience gaps in X-ray characterization techniques and/or electrochemistry.
- Demonstrated effective written and verbal communications skills.
- Demonstrated ability to work and communicate effectively with a diverse population.
- Demonstrated ability to work independently and in a team environment.

This is a two-year appointment available to begin March 2023.

Interested candidates should submit a current CV to Johanna Nelson Weker via email at [jnelson@slac.stanford.edu](mailto:jnelson@slac.stanford.edu).