

The Stanford Synchrotron Radiation Lightsource (SSRL) has an opening for a Postdoctoral Scholar to pursue research in nanocrystal synthetic development for catalytic applications. This research will be in collaboration with Lawrence Livermore National Lab and Stanford University. A large portion of this research effort will focus on the development of x-ray methods to understand the mechanisms by which highly monodisperse nanocrystals are synthesized. Components of this research will include:

- Development of a flow reactor to interface with simultaneous SAXS/WAXS
- Synthesis of standard and novel nanocrystals using flow reactor technology
- Analysis of *in-situ* scattering data to follow nanocrystal formation from nucleation through growth

In addition to the tasks outlined above, there will also be room for the postdoc to bring their unique perspective to this project and pursue research at their own direction.

Qualifications: a Ph.D. in a physical science. Experience with synchrotron and/or neutron scattering, nanoparticle or inorganic synthesis, scripting and/or macroing of data analysis routines are all strongly desired. Good interpersonal skills, and experience working within large inter-university collaborations will also increase candidate consideration.

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