Research Associate – Operando XAS of Catalysts

The Stanford Synchrotron Radiation Lightsource (SSRL), a Directorate of SLAC National Accelerator Laboratory, and a national user facility, seeks a Research Associate with interests in the operando characterization of catalysts using X-ray absorption spectroscopy. The successful candidate will work collaboratively with user groups throughout the United States and abroad, assisting in planning experiments, beamtime scheduling, training users, collecting data and providing guidance on the data analysis. The candidate will also be expected to develop methodology for performing state-of-the-art in-situ catalyst characterization, supervise and maintain the catalysis laboratory at SSRL, and work collaboratively with the diverse workforce at SLAC, external collaborators, and SSRL users.

Note: Research Associates at SLAC are fixed term academic appointments. Research Associates are engaged with the design, support, operation and/or scientific exploitation of the major programs of the laboratory, under the guidance of their faculty or Senior Scientific Staff / Distinguished Staff Scientist supervisor. They are expected to work with a high degree of independence on one or more specific tasks in support of the research program, frequently interacting with the laboratory’s scientific community.

MINIMUM REQUIREMENTS:

Education & Experience:
- Ph.D. in physics, chemistry, materials sciences, chemical engineering, or related fields.

Knowledge, Skills and Abilities:
- Experience with all aspects of synchrotron X-ray absorption spectroscopy is a must, including demonstrated ability in data analysis and modeling of XAFS data using Athena/Artemis.
- A solid background in materials/catalyst characterization and experience with in-situ cell design and development strongly preferred.
- Willingness to learn and bridge knowledge/experience gaps.
- Ability to work independently and in a team environment.
- Ability to work and communicate effectively with a diverse population; good interpersonal skills are essential.
- Effective written and verbal communication skills.

Applicants will be evaluated on research experience and accomplishments in the field of expertise. Please send a cover letter, a CV (resume) with a list of publications, research experience and accomplishments, and names of two references, to the address below: Simon R Bare, email: simon.bare@slac.stanford.edu

SLAC Employee Competencies:
• Effective Decisions: Uses job knowledge and solid judgment to make quality decisions in a timely manner.
• Self-Development: Pursues a variety of venues and opportunities to continue learning and developing.
• Dependability: Can be counted on to deliver results with a sense of personal responsibility for expected outcomes.
• Initiative: Pursues work and interactions proactively with optimism, positive energy, and motivation to move things forward.
• Adaptability: Flexes as needed when change occurs, maintains an open outlook while adjusting and accommodating changes.
• Communication: Ensures effective information flow to various audiences and creates and delivers clear, appropriate written, spoken, presented messages.
• Relationships: Builds relationships to foster trust, team collaboration, and a positive climate to achieve common goals.

WORK STANDARDS:

• Interpersonal Skills: Demonstrates the ability to work well with Stanford colleagues and clients and with external organizations.
• Promote Culture of Safety: Demonstrates commitment to personal responsibility and value for environment, safety and security; communicates related concerns; uses and promotes safe behaviors based on training and lessons learned. Meets the applicable roles and responsibilities as described in the ESH Manual, Chapter 1—General Policy and Responsibilities: http://www-group.slac.stanford.edu/esh/eshmanual/pdfs/ESHch01.pdf
• Subject to and expected to comply with all applicable University policies and procedures, including but not limited to the personnel policies and other policies found in the University's Administrative Guide, http://adminguide.stanford.edu.