



**Postdoc Opportunity. Duration: 1+1 years**  
**Hiring Dept: SLAC-LCLS**

**Position: Electrochemical reaction triggering methods for studies of transition metal catalysts**

SLAC National Accelerator Laboratory is seeking a full time postdoctoral fellow to work on exciting research at the Linac Coherent Light Source (LCLS) and Lawrence Berkeley National Lab (LBNL). The successful candidate will be hired as a Stanford University postdoc and will focus on implementing electrochemical control into existing sample delivery setups that are currently being developed. This work will be carried out at LCLS and LBNL and involves integrating such an approach into the LCLS beamlines for X-ray crystallography and spectroscopy experiments. This system will be used to study redox-active enzymes as well as for artificial photosynthetic systems and as such the candidate will be required to engage with multiple international collaboration groups and drive scientific research.

The dissemination of scientific outcomes through peer reviewed publications, as well as presentations at meetings/conferences, is expected. If you are ready to test your talents in this field of research and hone your skills at a national laboratory widely recognized for its work in the physical, chemical, and environmental sciences, we want to connect with you. SLAC is committed to fostering a work environment that promotes inclusion, diversity, equity and accountability. We encourage all qualified applicants to apply; you do not need to meet all the Preferred Qualifications to be considered.

This is a 1-year position with a potential option to extend to two years . Assignment duration is contingent upon project needs and funding.

**SLAC is a U.S. Department of Energy (DOE) laboratory operated by Stanford University and based in Menlo Park; CA. *Given the nature of this position, we will require onsite work.***

**Your specific responsibilities include:**

Develop electrochemical reaction triggering methods for studying transition metal catalysts by:

- Performing X-ray research at the LCLS XFEL and ALS and SSRL synchrotrons
- Develop electrochemistry methods for complex sample delivery systems
- Chemically manipulating simple biological and chemical samples.
- Planning and execution of forefront investigations and experiments with time-resolved ultrafast X-ray science.
- Interpretation of crystallography and spectroscopy results
- Collaborating with other scientists, postdocs, students, engineers, and technical staff to execute experiments and perform forefront research.
- Disseminating research results through peer reviewed publications and presentations at scientific meetings and conferences

**To be successful in this position you will bring:**

- Ph.D. in Chemistry, Biochemistry, Biology, Chemical Engineering, Physics, Physical Chemistry, Applied Physics or related field.
- Experience with electrochemistry methods
- A motivation to address real-world energy challenges with solutions at the interfaces of chemistry, biology, and physics.
- A background of hands-on experience with X-ray spectroscopy and/or XRD
- Demonstrated record of scientific productivity through publications.
- Effective written and verbal communication skills.
- Demonstrated ability to work and communicate effectively with a diverse population.
- Demonstrated ability to work in a team environment.

**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, 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>
- As an organization that receives federal funding, SLAC and Stanford University have a COVID-19 vaccination requirement that will apply to all university employees, including those working remotely in the United States and applicable subcontractors. To learn more about COVID policies and guidelines for Stanford University Staff, please visit <https://cardinalatwork.stanford.edu/working-stanford/covid-19/interim-policies/covid-19-surveillance-testing-policy>

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 Interested candidates should submit a cover letter with CV to Roberto Alonso-Mori (robertoa@slac.stanford.edu).