

Postdoctoral Scholar – Electrocatalysis and Electrolyzers

SLAC National Accelerator Laboratory announces the availability of two postdoctoral research scholar positions in Dr. Dimosthenis Sokaras' research group. We are seeking candidates who are passionate about advancing evidence-informed strategies for optimizing the performance and durability of electrocatalysts and electrolyzers, with a specific focus on green H₂ production through overall water splitting and the electrocatalytic conversion of CO₂ and/or CO into C₂+ products.

The successful applicants should possess a strong background on electrocatalysis and/or electrolyzers devices engineering, and an exceptional skillset on scientific papers writing. While at SLAC the scholars will have the opportunity to adapt and engage advanced operando X-ray techniques to extract atomistic and chemical insights. These insights will be correlated with macroscopic performance and degradation, directly informing improvements that would facilitate the scaling up of such technologies. The research tasks would include experimental chemistry lab work, synchrotron experiments (beamtimes), data analysis, theoretical calculations and -most importantly- scientific papers writing. While prior knowledge of synchrotron characterization techniques is not mandatory, it would be advantageous.

Qualifications:

- PhD in chemistry, chemical engineering, energy sciences, materials sciences, physics, mechanical engineering, or related fields of science or engineering.
- Demonstrated expertise in electrocatalysis and assessment of electrocatalytic performance and degradation. Exceptional candidates with alternative experience will also be considered.
- Willingness to acquire knowledge and experience in X-ray characterization techniques and related data analysis.
- Exceptional writing skills, particularly in delivering high-quality scientific papers.
- Ability to work and communicate effectively with a diverse population and professionals.
- Ability to work independently and in a team environment.

We have two positions available, with anticipated start dates in September 2023. These are two-year appointments, with the possibility of extending to a third year. We highly encourage candidates from diverse backgrounds who meet the qualifications to apply. Interested individuals should submit their current CV and a brief statement expressing their interest to Dr. Dimosthenis Sokaras via email at dsokaras@slac.stanford.edu

We look forward to receiving applications from talented individuals who are enthusiastic about contributing to cutting-edge research in the field of electrocatalysis and electrolyzers. Join our team and make a significant impact on the future of sustainable energy production.