Seeking a qualified candidate for a post-doctoral position in operando characterization of electrocatalysts.

**Position:** Postdoctoral Scholar, 1.0 FTE

**Location:** Corvallis, Oregon

**Duration:** 2 years (Sept 15, 2022 – Sept 14, 2024; start date flexible)

**Availability:** Immediately, open until filled

**Salary:** Commensurate with qualifications and experience as per OSU guidelines

**Position Summary:** This position as a Postdoctoral Scholar is a fixed-term, 12-month, 1.0 FTE appointment through the School of Chemical, Biological, and Environmental Engineering (CBEE) with the **Stoerzinger Research Group**.

**Description of Duties:**

1. Create an individual development plan to establish career and project-based research (and optional teaching) goals and track progress towards achieving stated goals.

2. Participate in ongoing electrocatalysis research with emphasis on materials characterization and testing, analysis, and manuscript preparation. Duties will include data analysis and presentation; manuscript writing, development and publication in peer reviewed journals; development/writing of manuscripts in collaboration with project team members. Travel may be required to collect unique scientific data and present research to scientific peers.

3. Collaborate with Prof. Zhenxing Feng and beamline scientists at the Advanced Photon Source and Advanced Light Source to perform ex situ and operando X-ray spectroscopy.

4. Assist with the development of research proposals; participate in a variety of outreach activities; and support undergraduate and graduate student success.

5. Additional professional development opportunities include:
   a. Establishing collaborations with project personnel, graduate students, OSU faculty, and collaborating faculty at other institutions.
   b. Supervision and mentorship of graduate students; with input from the project PI, the postdoctoral scholar will plan, assign, and approve work.
   c. Professional networking and soft skills development by participating in conferences, workshops, seminars, and training programs, with supervisor approval.
   d. Project report and grant writing experience, with supervisor approval.
   e. If interested, periodically lead lectures and/or recitations for CHE 443, CHE 540, and/or CHE 625 courses.
Work Schedule/Working Conditions: Full time. Work will generally be conducted in a laboratory or office setting. Occasionally projects may require the postdoctoral scholar to work at atypical times (e.g., evenings, weekends). Travel may be required to collect unique scientific data and present research to scientific peers.

Minimum Required Qualifications:
- Ph.D. in relevant engineering disciplines (chemical engineering, materials science, chemistry, physics, or similar)
- Proven track-record of independent research, critical thinking, and successful academic publications.
- Excellent written and verbal communication skills
- Experience in X-ray spectroscopy data collection and analysis
- Experience with electrochemistry
- Experience in writing manuscripts for peer-reviewed publications
- Ability to work independently and in a team
- Excellent organizational and time management skills
- A commitment to promoting and enhancing diversity

Preferred Special Qualifications:
- Education, training or prior experience with extended X-ray photoelectron spectroscopy (XPS) or X-ray absorption fine structure (EXAFS) spectroscopy
- Education, training or prior experience with low energy ion scattering (LEIS), Raman, or infrared spectroscopy
- Education, training or prior experience with gas chromatography/mass spectrometry or ion chromatography

Other Job-Related Skills and Abilities: A criminal history check will be required.

Please note: only qualified candidates with the required expertise will be contacted. Applicants with experience in operando spectroscopy are encouraged to apply.

Application Materials:
- A detailed CV.
- A two-page statement describing your background, how you fit the advertised position, and your commitment to collaboration, diversity, equity, inclusion, and community building.
- Contact information for three references.

To apply: Submit application materials as a single .pdf file via email (subject line: “PD application”) to Professor Kelsey Stoerzinger at kelsey.stoerzinger@oregonstate.edu.

Contact:
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