

**Seeking a qualified candidate for a post-doctoral position in
characterizations and tests of battery and energy materials.**

Position: Postdoctoral Scholar, 1.0 FTE

Location: Corvallis, Oregon

Duration: 1 years (March 16, 2025 to March 15, 2026; start date flexible, renewable for a second year based on satisfactory performance)

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 **Feng 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 battery and electrochemical 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 scientific data (e.g., synchrotron X-ray measurements) and present research to scientific peers.
3. Collaborate with Dr. Steve Sloop of OnTo Technology, OSU faculty/staff and beamline scientists to perform battery electrode analysis, tests, physical/chemical characterizations, and ex-situ as well as in-situ X-ray measurements.
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 CHE311, CHE444/544, and/or CHE452/542 courses.

Work Schedule/Working Conditions: Full time. Work will generally be conducted in a laboratory, field, 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 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 battery electrode fabrication, tests, and coin cell as well as pouch cell development.
- Experience in materials characterizations (e.g., SEM/TEM, XRD, XPS, ICP-MS, etc.). The use of synchrotron X-ray for characterizations is a plus
- 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 battery cell assembling, tests, and characterizations.
- Education, training or prior experience with extensive lab-based characterizations using X-ray photoelectron spectroscopy (XPS), transmission electron microscopy (TEM), and some synchrotron X-ray scattering/spectroscopy.
- Education, training or prior experience with polymer characterization.
- Education, training or prior experience with electrocatalyst tests, and characterizations are plus

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 battery tests and characterizations, electrochemical measurements 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 Zhenxing Feng** at zhenxing.feng@oregonstate.edu.

Contact:

Zhenxing Feng

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