

Senior Electrochemist / Electrochemical Senior Engineer New Haven, CT

Oxylus Energy is a novel climatetech company focused on providing real solutions that can scale. We take novel, breakthrough technology in electrochemistry that helps eliminate the need for fossil fuels by converting carbon dioxide into carbon-neutral fuels and chemical feedstocks. We are a team of scientists, engineers, and problem solvers dedicated to reducing the need for fossil fuels.

Job Brief

The electrochemist / electrochemical engineer is responsible for testing the performance of membrane electrode assemblies (MEAs) for *Oxylus Energy* electrochemical reduction of CO₂ under the range of conditions. As an electrochemist you will be tasked with understanding the core operating & scientific principles that influence the electrochemical performance of our novel reactors. In this role, you will be designing and performing experiments that create improvements for these electrolyzers. Day-to-day tasks involve setting up electrochemical tests and analyzing data to report to project stakeholders, managing various electrochemical tests to consistently produce quality data, and taking part in experimental design.

What You Will Do

- Perform electrochemical tests and then work up, analyze, and summarize the results
- Study failure mechanisms in CO₂ reduction systems
- Manage, troubleshoot, and maintain electrochemical test stands
- Utilizing experimental data to guide experimental plans
- Communicate the status of testing hardware and any issues encountered during experiments

Additional responsibilities might include:

- Mentoring junior members of the testing team.
- Documenting procedures in order to create shared knowledge
- Preparing presentations and data analysis with wider technical teams.

Who You Are

- Academic background in Chemistry/Chemical Engineering, Physics, or Materials Science
- Bachelors with 5+ years of relevant experience.
- Masters with 2-4 years of relevant experience.
- PhD with 0-2 years of relevant experience.
- Electrochemistry experience
- Highly attentive to detail with strong organizational and communication skills



- Outstanding communication & presentation skills
- Able to lift 25 lbs as required for cell assembly

Salary

- \$80k - \$100k, commensurate on experience, education, and skills

Oxylus Energy Benefits

- Medical, dental, and vision coverage
- Paid sick days and vacation
- Competitive salary and equity compensation commensurate with experience
- Diverse and inclusive work environment

We are convinced that the distinct contributions of each person fuel our success. To ensure our products and culture remain inclusive of all viewpoints and experiences, we uphold a policy of non-discrimination regarding race, religion, national origin, gender identity or expression, sexual orientation, age, as well as marital, veteran, or disability status.