Electrochemistry Intern

Location: Onsite — Santa Clara, California
Type: Temporary, Full-time Internship
Time Period: ~ Four months
Start Date: As soon as possible

About Elevated

Elevated Materials is at the forefront of lithium battery technology, revolutionizing energy storage by enabling dramatically better battery performance. Elevated's ultra-thin lithium films increase energy density by 30-70%, extend battery life, and enable significantly faster charge times. Elevated delivers the world's highest quality lithium films and is the only cost-effective solution for GWh-scale manufacturing. This technology is used for all lithium-ion battery applications and anode chemistries and is being commercialized today with R&D and manufacturing in the Bay Area and Germany.

Why Elevated

At Elevated Materials, we're not just building ultra-thin lithium film for better batteries, we're powering a cleaner, more sustainable future. As a purpose-driven company at the forefront of energy innovation, we're taking on one of the world's biggest challenges with cutting-edge technology and an extraordinary team.

Key Duties and Responsibilities

- **Electrode Materials Development:** Assist in the development, optimization, and characterization of thin lithium anode materials, familiar with material characterization techniques, including SEM, XRD, ICP et al, focusing on prelithiation techniques to improve cell performance and longevity.

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MATERIALS

- **Coin Cell Assembly and Testing:** Support the assembly of prototype battery cells, including electrode fabrication, electrolyte preparation, and overall cell construction, ensuring proper quality control during the process.
- **Electrolyte Familiarity**: Gain hands-on experience with various electrolyte formulations, and assist in evaluating their impact on cell performance, stability, and cycle life.
- **Data Analysis**: Assist in collecting and analyzing experimental data from cell performance tests (Arbin and Maccor), including charge/discharge cycles, voltage profiles, and capacity retention, to drive continuous improvement.
- **Collaboration with Senior Engineers**: Work closely with experienced engineers to contribute to ongoing projects, provide technical support, and assist in troubleshooting issues related to electrode materials, cell assembly, and performance optimization
- **Documentation and Reporting**: Maintain accurate records of experimental procedures, results, and progress. Prepare reports and presentations to communicate findings effectively to the team.
- **Process Improvement**: Participate in brainstorming and troubleshooting sessions to develop innovative solutions to improve electrode material performance, yield, and cost-efficiency.
- **Safety and Best Practices**: Adhere to safety protocols and best practices in lab operations, ensuring a clean, safe, and organized work environment

What You'll Bring (Qualifications & Experience)

- Students must be pursuing an Undergraduate, Masters, or PhD in Materials Science, Electrochemistry, Chemical Engineering, Physics, Chemistry, or related field
- Ability to work independently with minimal supervision
- Electrochemistry with battery-knowledge preferred
- Coin cell and SLP building, testing
- Data analysis and report generation

- Effective communication and teamwork abilities
- Skilled in the use of common MS Office applications, data plotting software like JMP and Excel
- Analytical mindset and problem-solving orientation

Compensation & Benefits

This is a non-exempt position with varying wage rates based academic experience. Students at all levels qualify for Elevated benefits. The hourly rates for students currently pursuing the following degrees are:

Bachelors: $35.00 per hour
Masters: $40.00 per hour
PhD: $45.00 per hour

Elevated's benefits include:

- Healthcare: Excellent medical, dental, and vision coverage
- Tax-Advantaged Programs: FSA, HSA, Dependent Care FSA, commuter benefits
- Retirement: 401(k) with a generous 4.5% match and immediate vesting
- Wellbeing**:** Access to One Medical, Rightway, Spring Health, XP Health, and SoFi
- Time Off: Paid holidays
- Additional Perks: Company cell phone, employee resource support, and more

Equal Opportunity Employer

Elevated Materials is proud to be an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees. We comply with all federal, state, and local employment laws, and use E-Verify to ensure employment eligibility. We welcome all qualified candidates to apply.

All qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, sex, sexual orientation, gender, gender expression, gender identity, genetic information or characteristics, physical or mental disability, marital/domestic partner status, age, military/veteran status, medical condition, or any other characteristic protected by law.