



## IMMEDIATE POSITION - TECHNICAL RESEARCH LEAD

### Technical Researcher:

Based in the Bay Area with laboratories in Berkeley, CA at Molecular Foundry at Lawrence Berkeley National Lab (LBNL), Sylvatex is leading the development of renewable micelle applications across a myriad of commercial applications. Initially starting with applications in biofuels and now nanomaterial synthesis for cathode material, Sylvatex has evolved to develop a technology platform that harnesses the power of nanotechnology to improve sustainability in current commercial applications. This position is specifically to lead research developments and to execute on a NSF grant for energy storage applications.

**Objective:** to perform necessary bench testing for the company's needs and the reporting for the NSF grant requirements. The employee is to ensure the research is carried out with integrity, information is collected and stored appropriately; and the lab can support partnerships, demos, and new projects.

**Responsibilities & Duties** might include, but are certainly not be limited to:

- Carry out basic wet chemistry procedures: mixing and synthesizing chemicals and nanoparticles, determining solubility, recording observations and measurements, troubleshooting problems that may arise.
- Characterize the cathode material intermediates (pre-calcination) and resulting cathode nanomaterials after calcination using instruments such as: FTIR, XRD, SEM/EDS, TGA, DSC, BET, ICP, Tube Furnace and PSA.
- Collaborate with electrochemists and characterization experts at LBNL.
- Determining chemistry-property performance relationship of various products and technologies
- Testing the stability and other physical characterizations of various formulations
  - o Preparing batches of samples for testing
  - o Utilizing new raw material inputs
  - o Exploring new applications to expand the company's technology platform
- Ensure proper documentation and record-keeping practices
- Ensure transfer of information and results to reports and SOPs
- Catalog all incoming materials and experiment results
- Help to develop and provide guidance on work plans and research projects with direction from advisors
- Support R&D efforts by helping to interpret data, and reproduce experiments and findings
- Maintain all lab areas in a clean and well-organized manner
- Establish & manage relationships with testing laboratories, service providers, and industry experts
- Managing chemical, equipment, and supply purchases and inventory and testing requests
- Interacting with external testing labs and partners
- Preparing grant reporting summaries and presentations

### Who you are:

- Motivated, team player
- Thrives in a fast paced environment
- Organized and excels at documentation
- Able to work well alone within provided work scope
- Successful at multitasking, managing innovative projects and programs simultaneously
- Excellent communicator, both written and spoken English
- Excellent attention to detail

**Required/Preferred qualifications:** Ideal candidate will have a background (PhD, M.S.) in chemistry with a concentration in process chemistry, electrochemistry, chemical engineering or biochemistry. Previous work at LBNL and current Molecular Foundry would be preferred.

**Time Commitment/ Compensation:** Part time or full time with 4-5 days in the lab primarily at LBNL, Paid Position: Based on Experience

**Contact:** Please contact [admin@sylvatex.com](mailto:admin@sylvatex.com) for an interview