

Position: Materials Scientist / Electrochemist

Job-Type: Full Time

Company: Staq Energy, Inc. (www.staqenergy.com)

Location: 321 S. Taylor Avenue, Suite 250, Louisville, CO 80027

About Us

[Staq Energy, Inc.](http://www.staqenergy.com) is developing distributed energy storage solutions to accelerate the adoption of renewable energy. Using our proprietary battery technology, Staq Energy is developing a new generation of products and services for global stationary energy storage markets. If you have a professional background outlined below, are passionate about working in a fast-paced environment, want to cultivate your expertise and collaborate with some of the world's top talent, we'd like to hear from you.

Position Summary

STAQ ENERGY is seeking an experienced material scientist/electrochemist to work on the development and characterization of electrode materials for our innovative rechargeable alkaline batteries. The candidate must be familiar with common solid state chemistry practices such as synthesis of materials, material characterization, electrochemistry, and must be well versed in establishing correlations between processing, structure and properties/performance. The ideal candidate will have a creative personality with ability to think outside of the box. The person must be a team player but must be able to work independently with little supervision.

Primary Responsibilities

- Synthesis and characterizations of new electrode formulations including: chemical composition, defects, electrochemical performance, stability versus time and versus charge/discharge, etc.
- Collaborate with team battery and test engineers to investigate electrode material degradation mechanisms and failure modes. Develop predictive models.
- Develop improved compositions, synthetic methods, material structures, and concepts to advance the performance and lifetime of the electrodes within the cell.

Key Qualifications:

- PhD in solid state chemistry, inorganic chemistry, materials science or equivalent
- 3+ years of experience in battery materials development
- Demonstrated expertise in material chemistry and synthesis related to battery active materials. Significant experience in material synthesis using hydrothermal, co-precipitation, etc. is strongly desired.
- Able to use advanced analytical techniques for particle structure and property determination; demonstrated expertise in obtaining and interpreting composition-structure-property relationships

- Familiar with common materials characterization techniques including SEM, XRD, BET surface area measurement, particle size analysis, mercury porosimeter, X Ray Photoelectron Spectroscopy (XPS).
- Familiar with common analytical instruments and methods including FTIR, ICP-OES, GC, Mass spectroscopy, etc.
- High level of scientific creativity and strong aptitude for problem solving.
- Organized, systematic and efficient work style.
- Self-starter that can carry out tasks with minimal oversight.
- Team oriented; willing to share with, listen to and help others.
- Excellent written and verbal skills; ability to explain data and results clearly and communicate effectively