

Job Title: Reliability Engineer**Job Duties:**

- Develop and execute qualification test plans for sodium-ion battery cells, modules, and packs by conferring with engineers, customers, and compliance and 3rd-party testing agencies. The purpose of these qualification test plans is to obtain the safety and reliability certifications required by customers and the energy industry.
- Design, implement, maintain, improve, and operate test systems and computer-assisted engineering equipment to develop and execute reliability test protocols for batteries and battery systems for commercial, industrial, or domestic purposes.
- Quantify the reliability of batteries cells, modules, packs, and their components produced in manufacturing runs and in research projects by designing and conducting experiments.
- Conduct failure analysis on test samples that exhibit unexpected behavior, perform unreliably, or fail reliability tests. Failure analysis consists of techniques such as scanning electron microscope and energy dispersive x-ray spectroscopy.
- Develop and execute research methodologies and procedures based on principles of electrical theory and statistical data analysis to inform decisions made for sodium-ion battery engineering designs and manufacturing processes.
- Develop and operate engineering and design computer algorithms in Matlab to: (i) analyze battery test data; (ii) model and simulate the behavior of battery components and systems; and (iii) generate plots and reports with compiled data regarding existing or potential electrical engineering projects related to the development of sodium-ion battery products.
- Perform detailed calculations and use statistical software such as JMP or MiniTab to: (i) design experiments; (ii) determine the statistical significance of the results of tests; (iii) justify the risks in making decisions based on statistical sampling of subsets of the population of batteries produced in house; and (iv) compute and establish manufacturing, construction, or installation standards or specifications for sodium-ion battery products.

Minimum Requirements:

Master's degree or foreign equivalent degree in Electrical Engineering or a related field and one year of experience as a Reliability Engineer, Quality Engineer, Test Engineer, Electrical Engineer, or a related occupation in the energy industry required. The required one year of experience must be in test development and data analysis for energy applications and must include the use of statistical software JMP or MiniTab.

Additional Information:

Employer's name: Natron Energy, Inc.

Job site: 3542 Bassett Street, Santa Clara, CA 95054

If you are interested in applying for this position, please mail resume with Job #101 to HR at Natron Energy, Inc., 3542 Bassett Street, Santa Clara, CA 95054.