

Senior Cell Engineer

Location: Arlington VA (or flexible)

ABOUT FLUENCE

Fluence, a Siemens and AES company, is the leading global energy storage technology solutions and services company that combines the agility of a fast-growing technology company with the expertise, vision, and financial backing of two industry powerhouses. Building on the pioneering work of AES Energy Storage and Siemens energy storage, Fluence's goal is to create a more sustainable future by transforming the way we power our world. The company offers proven energy storage technology solutions designed to address the diverse needs and challenges of customers in a rapidly transforming energy landscape, providing design, delivery and integration in over 160 countries. Fluence works closely with customers throughout their journey and provides advisory, financing, and project lifecycle services.

Job Description

In this role you will be responsible for Li-ion battery cell design specification and evaluation of cell and related battery system components from multiple manufacturers. You will be a member of a team focused on specification and deep evaluation of third-party battery system components and DC systems and their incorporation into Fluence stationary energy storage systems. You will design and propose new research and testing of cell designs and evaluate outcomes of testing. You will guide Fluence cell technology selection and act as a subject matter expert for all strategies related to cell technologies.

Responsibilities

- Apply quality tools to track the development and production of lithium batteries from suppliers including statistical analysis of performance results
- Lead design and qualification of new cell technology platforms by working across cell suppliers to adapt their technologies
- Drive new technology development with cell suppliers
- Where necessary, work in partnership with universities and other third parties to evaluate new technologies and support development work
- Track cell roadmaps of battery developers and incorporate into Fluence system planning.
- Define key parameters, procedures, and evaluation strategies for battery performance
- Create mathematical models and simulate cell performance in different aging stages

- Define and analyze battery system field data and propose improvements to management and operations including algorithmic controls
- Travel as needed up to 10% with exceptions for pandemic conditions

Qualifications

- 5 or more years of cell development experience for lithium-ion batteries (experimental work preferred)
 - Experience with mathematical modeling of battery designs
 - Excellent written and verbal English skills
 - A dedication and commitment for results in a dynamic and fast developing environment
 - Ability to collaborate across disciplines, departments, both internal and external, and across geographies, with strong team skills
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- Ph.D. Electrochemistry, Chemical Engineering, or similar;
 - 10+ years industry experience, 5+ years' experience in developing, testing, or simulating battery cells
 - Demonstrated capability evaluating lithium battery cells and deep understanding of battery functionality.
 - Experience in cell or battery pack design and qualification of batteries
 - Proficiency with battery test systems, methods and evaluation
 - Experience translating battery system-level requirements into cell level requirements
 - Technical curiosity for understanding all aspects of battery cell and pack design and manufacturing
 - Passion for batteries, sharing know-how, and learning from others

GET IN TOUCH

Please send your resume and cover letter to careers@fluenceenergy.com

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