



Job Title	Lead Electrical Engineer
Location	Vancouver, BC
Reports to	Director of Hardware Engineering
Date Posted	Dec 2020

Job Summary

As the world transitions to a renewable energy future, large-scale energy storage systems are required to bridge the gap between intervals of renewable energy production. Invinity Energy Systems, listed on the London Stock Exchange, is the leader in vanadium flow batteries, a proven technology addressing the global demand for energy storage.

Invinity is seeking an experienced electrical engineer to join its product development team and lead the design and specification of the electrical systems within Invinity's energy storage products. In this role you and your team will work closely with the other groups in Invinity's product development organization. You will be empowered to make key technical design decisions and work with others to evolve Invinity's products.

Responsibilities

- Lead electrical system design of a next generation flow battery, working closely with teams responsible for electrochemical systems, mechanical components, power electronics, and control systems
- Conceive, design, and develop the electrical system architecture of Invinity's flow battery products
- Oversee two direct reports and work with HR to hire additional team members when needed
- Develop and maintain design documentation for electrical system components and wiring harnesses
- Conduct design reviews
- Ensure design compliance with regulatory and safety standards
- Define, plan, and execute design verification
- Work with the appropriate teams to specify, source, and qualify electrical system components
- Support manufacturing and supply chain activities, including key supplier(s) identification, selection, and QA programs
- Provide electrical systems expertise to teams responsible for installation and operation of Invinity's products



Requirements

- 5+ years of designing, developing, and configuring integrated electrical systems
- Bachelor's degree in electrical engineering or related field
- Experience leading technical teams in the development and delivery of electrical systems
- Able to read, understand, and develop electrical schematics
- Skilled in testing and troubleshooting using diagnostic and test equipment, such as multi-meters, oscilloscopes, programmable power supplies and load banks
- Experience in new product introduction environments, including formal product development and configuration management processes
- Well-honed problem-solving skills, including use of structured tools (8D, etc.) to drive root cause and corrective action processes
- History of documenting and communicating procedures, specifications, and test results for internal and external audiences
- Experience following formal product development and configuration management processes
- Ability and desire to travel as needed (no more than 10%)

Desirable

- 5+ years of experience working with energy storage, PV systems, or other similarly integrated power electronics systems
- Expertise in North American and European electrical installation codes and electrical product safety standards (UL, IEC, etc.)
- Registered as, or eligible for registration as a Professional Electrical Engineer in USA and/or Canada