

Senior Mechanical Engineer

Zinc8 Energy Solutions is developing a range of energy storage products based on a novel zinc-air flow battery technology. An expanding market for these products exists in utility, commercial, industrial, microgrid and similar applications. With powerful backing and a committed engineering nucleus, Zinc8 is expanding its product development team to capitalize on this rare opportunity.

Job Description

We are looking for a Senior Mechanical Engineer to join the Product Development Team. Reporting to the VP Engineering, the successful candidate will take our prototype modules and transform them into robust manufacturable assemblies.

Duties & Responsibilities:

- Work with subsystem and component teams to transform prototypes into manufacturable and robust components and assemblies.
- Work with contract manufacturers to help transition into volume manufacturing of our product
- Work with manufacturing team to improve the manufacturability and assembly of our modules
- Define and coordinate verification and validation testing of components and modules
- Prepare 3D CAD models and engineering drawings according to ASME Y14.5 and GD&T standards
- Prepare detailed specifications for components and assemblies

Minimum Qualifications:

- Bachelor's degree in Mechanical Engineering
- 10+ years of product development
- Extensive experience in DFX of stacked assemblies
- Experience designing of sealed assemblies
- Demonstrated experience managing the development of products that are complex assemblies
- Demonstrated ability to do cost reduction of prototypes
- Demonstrated effective component definition and specification for volume production
- Experience outsourcing components and able to work with custom component suppliers to quickly achieve quality products
- Extensive experience in injection molding, extrusion, stamping, casting, and other volume manufacturing methods
- Experience implementing and managing functional and design verification and validation test programs
- Demonstrated the ability to manage complex projects and deliver results in a short time
- Demonstrated leadership to manage multiple engineers to achieve project goals
- Capable of planning and budgeting for complex projects
- Experience working in an R&D environment and has demonstrated the use of effective experimentation to solve problems
- Demonstrated effective use of rapid prototyping and scaled functional testing for concept validation
- Experience with engineering change control
- Demonstrated first principles and objective oriented thinking

- Proficiency in SolidWorks
- Must be fluent in English with excellent communication skills

Desirable Qualifications:

- Experience designing for fuel cells or batteries
- Experience using CFD and FEA tools
- Experience designing for corrosive environments
- Experience conducting thermal analysis of components and assemblies

Compensation:

We offer a competitive salary with generous benefits. We promote an open and inclusive environment in which our colleagues are encouraged to be creative and resourceful.

Location

Vancouver, B.C.

Great location – close to the Canada Line, Marine Drive, SkyTrain station!

Please send your resume and cover letter to: careers@zinc8energy.com