

## **Junior/Intermediate 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.

### **Duties & Responsibilities:**

- Support mechanical documentation of as-built subsystem assemblies
- Support groups in developing specific production and manufacturing and assembly tools (fixtures, jigs)
- Support groups on specific component development for volume production (concept to implementation)
- Prepare designs suitable for prototyping and/or high volume manufacturing processes
- Provide SolidWorks models/drawings, using ASME Y14.5 standards
- Support groups in developing electrochemical test benches (cell design, piping design for liquid and gas flow, humidification, sensing and control)
- Support mechanical design of various novel electrochemical sensors
- Collaborate with electrochemical specialists to define component and assembly requirements

### **Minimum Qualifications:**

- Bachelor's degree in Mechanical Engineering
- 2 to 5 years' experience in mechanical design in a related field
- Experience designing fluidic systems
- Experience with prototype development, functional testing and characterization
- Experience sourcing components according to design requirements
- Proficiency in using SolidWorks to design components and assemblies, and generate detailed drawings for fabrication and assembly
- Must be fluent in English with excellent communication skills

### **Desirable Qualifications:**

- Experience with fuel cells (cell design, assembly, operation, testing)
- Understanding of fuel cell, battery or electrolysis theory
- Experience with electrochemical products and processes
- Experience developing and executing test plans
- Experience in designing components and assemblies that contain chemicals
- Experience using CFD as a tool for design optimization
- Experience using standard methods of troubleshooting

### **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](mailto:careers@zinc8energy.com)