



## **ELECTRICAL DESIGNER (w/ Electronic Circuit, PCB Design, IoT)**

Engineering / Product Development / Manufacturing  
Moncton, New Brunswick

Do you want to work for a dynamic and rapidly growing company that is an industry leader in our field? Greystone Energy Systems Inc. is dedicated to developing high quality and innovative solutions for its customers with unsurpassed customer service.

### **The Opportunity**

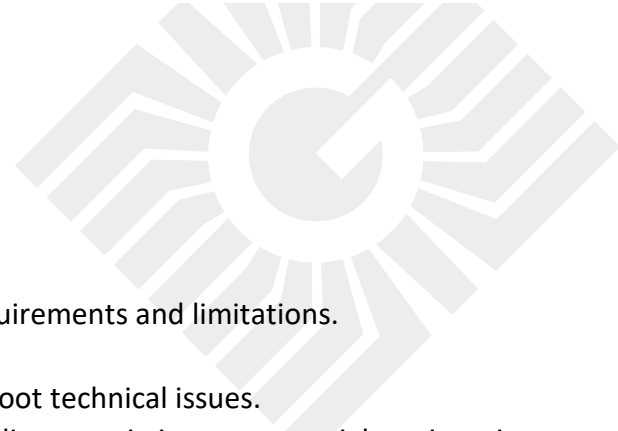
We are growing and looking for a motivated **ELECTRICAL DESIGNER** to join the Engineering team working in Moncton, New Brunswick.

### **Objective & Summary**

- The main role of the electrical designer will be the electronic circuit and mechanical design, prototyping and testing of new sensor interface and controller products for HVAC applications using industry-standards and techniques.
- Schematic, printed circuit board design and mechanical modeling in a cross-functional electro-mechanical environment. Designs will vary in complexity depending on the end-product application and functional requirements.
- Provide technical direction on emerging wireless technologies for electronic hardware design including but not limited to Internet of Things (IoT).
- Coordinate design deliverables based on product roadmap schedule ensuring deliverable dates are achieved.

### **Principle Duties & Responsibilities**

- Hardware design in accordance with the agreed project schedule, cost, quality, functional requirements, and customer requirements.
- Develop design documentation for assigned projects including the following:
  - (1) Schematics and PCB layout (Solidworks 3D PCB)
  - (2) PCB assembly drawings, models, and parts lists
  - (3) Design verification and test results
  - (4) Regulatory compliance
- Initiate and/or provide design input to Engineering Change Orders (EC's) to release new designs, manage changes/enhancements to existing designs, improve quality and manufacturability, reduce assembly time or material costs.
- Design of product test fixtures and test procedures for use in a manufacturing environment.
- Participate, coordinate, and lead design reviews with the cross-functional design team, sales, and customers.



- Work with the cross-functional design team in understanding requirements and limitations.
- Analyze and resolve design-related issues in a timely manner.
- Provide support to manufacturing teams as required to troubleshoot technical issues.
- Consult with engineers, customers, and other stakeholders to discuss existing or potential engineering projects.
- Work with Mechanical Design and Process Design ensuring accurate 3D models and 2D drawings for new product introductions.
- Interacting closely with other engineers to create robust designs.
- Liaising with the manufacturing team for procurement and transfer of documentation.
- Contributing to continual process improvement within the design team.

### **Education, Training & Experience**

- Degree in Electrical Engineering, Electronics diploma, or equivalent experience.
- Minimum 5 years' experience in product design for manufacturing specializing in printed circuit board (PCB) design in electro-mechanical products.
- Experience in the design and IoT enable products would be considered an asset.
- Knowledge/experience of HVAC systems and components would be a strong asset.
- Experience with embedded firmware design would be a strong asset.

### **Skills and Competency Requirements**

- Advanced knowledge of electrical components and electronic circuit design.
- Proficient with Microsoft Office programs (Word, Excel).
- Advanced knowledge of PCB layout software – Solidworks 3D PCB would be considered an asset.
- Knowledge working with Product Data Management (Solidworks PDM).
- Strong problem-solving ability.
- Keeping up-to-date technically and applying new technology to projects as required.
- Ability to organize, plan and prioritize work.
- Ability to observe, receive and otherwise obtain information from all relevant sources.

Only those who will be considered for the next step of the application process will be contacted.

Interested applicants should submit their resume to Jodi Mattatall @ [Mattatall.j@greystoneenergy.com](mailto:Mattatall.j@greystoneenergy.com)