



**Solectria Renewables is America's leading manufacturer of high power photovoltaic inverters for solar applications. Join a driven and innovative team working in a fast paced and challenging high technology environment. Let your talent fuel one of the nation's fastest growing industries. We offer an excellent benefit package, the ability to work with cutting edge technology, and room for professional growth and career advancement within the company. Solectria Renewables is an Equal Opportunity Employer. Qualified candidates should send their resume and a detailed cover letter to: [HRSeniorEEng@solren.com](mailto:HRSeniorEEng@solren.com)**

## **POSITION DESCRIPTION**

**TITLE: Senior Electrical Design Engineer**  
**SUPERVISOR: Hardware Design Engineering Manager**  
**CLASSIFICATION: Exempt, full-time**

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## **DUTIES:**

1. All aspects of circuit design and validation for high performance inverter systems.
2. Hardware Design areas: DSP Processor based systems, high voltage designs up to 2kV, power stage development, safety circuits, magnetics, gate drive circuitry, control circuitry, and other aspects of power electronics.
3. Validation testing and system certification: HALT, Thermal testing, EMI testing, UL Listing, CE conformance, etc.
4. Leading feature improvements and cost reduction efforts for existing products.
5. Working with High Voltage/High Power circuits using best practices for safety.
6. Other duties as assigned.

## **REQUIREMENTS:**

### **Education/Certification:**

1. BSEE and a minimum of 7 years related experience is required.

### **Engineering Skills:**

1. Significant electronic circuit design, including Processor based systems, Communications interfaces, OpAmps, Filters, Isolation, Circuit protection, voltage regulation and conversion.
2. Deep knowledge of circuit analysis and simulation to ensure design margin and reliability.
3. Design background in harsh, electrically noisy environments.
4. Knowledge of Electrical safety standards, EMI and Environmental compliance.
5. Experience in design for long life and high MTBF.
6. Background in embedded C programming is a plus.
7. Knowledge of mechanical/thermal/packaging design for industrial electronics.



**Business/Personal Skills:**

1. Rapid product development, while maintaining high quality results.
2. Outstanding work ethic and positive attitude required.
3. Strong sense of: schedule driven design, meeting cost targets, NRE decisions, feature/effort trade efforts, and design for manufacturing.
4. A high level of initiative and a proactive nature, good communication and presentation skills and strong organizational and time management skills.
5. Ability to work as a leader or individual contributor, depending upon assignment.
6. Occasional travel is required.