



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: humanresources@solren.com

POSITION DESCRIPTION

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

DUTIES:

1. Scaled design - new inverter sizes/models
2. Design, testing and debugging power electronic circuits
3. Design - power stage, magnetics, gate drive circuitry, control circuitry, and other aspects of power electronics
4. Design - embedded DSP software, overall component and system design debugging and improvements
5. Validation testing and system certification, i.e. thermal testing, EMI testing, UL Listing, CE conformance, etc.
6. Leading cost reduction effort of existing inverter models
7. Test and approval of parts from alternate sources
8. Other related duties as assigned

REQUIREMENTS:

Engineering Skills:

1. Hands-on experience with three phase Power & Control Electronics and software is required
2. Knowledge of control theory, including embedded control
3. Fluency in C. Reliable and efficient software for processors ranging from limited resources to high performance implementations
4. Significant electronic circuit design, including OpAmps, Filters, Isolation, Circuit protection, voltage regulation and conversion
5. Knowledge of Electrical safety standards, EMI and Environmental compliance
6. Knowledge of mechanical/thermal/packaging design for industrial electronics.
7. A high level of initiative and a proactive nature, good communication and presentation skills and strong organizational and time management skills.
8. Occasional travel is required

Education/Certification:

1. A MSEE (or equivalent) and a minimum of 3 years related experience is required.