

Renewegy Career Opportunity

Requisition: R-017

Job Title: Senior Engineer – Power Electronics / Power Conversion

Job Location: Oshkosh, WI

Job Description: Senior engineering career opportunity in the design, validation, and application of advanced IGBT based power electronics and power conversion systems. Power conversion applications will include renewable energy, hybrid renewable systems, hybrid-electric propulsion, and electric propulsion. Responsibilities will include electrical and control system modeling, algorithm development, embedded fixed-point code generation, FPGA/DSP/Microcontroller integration, internet connectivity, electrical system design, wire harness design, electrical interface circuit design, and service tool design. Additional responsibilities to include System level schematic development and internet connectivity of remote systems

Candidate should have experience in the design and validation of embedded real-time control systems preferably in the areas of industrial or automotive.

- Knowledge of AC power systems and Variable Frequency drives
- Knowledge of PMAC generators and motors
- Hands-on experience with IGBT and FET based power electronics
- Hands-on experience with high power electronics design
- Experience with embedded fixed-point C software a requirement
- Experience with CAN bus systems and protocols required
- Ability to design and fabricate automotive style electrical wiring harnesses
- Experience in leading a technical team, or the desire to grow into a leadership position
- Ability to interface with multidisciplinary groups and work effectively as a team
- Willingness to take-on responsibility and keep multiple simultaneous assignments on schedule
- Ability to reduce complex systems down to Physics based primitives
- Candidate will work with mechatronics engineers, firmware engineers, and tools engineers from supporting engineering disciplines and suppliers to converge on overall design solution
- SolidWorks CAD experience a plus

Qualifications:

MSEE or BSEE (or equivalent) with 10+years experience utilizing power electronics, embedded electronics, embedded C language and compilers, LabView, Visio, Microsoft Office