



Power Electronics Engineer

Full-Time Position

Location

Linthicum, MD

Description of Duties

Perform as the key technical leader on major programs involving power electronics system and detailed design. Must be able to make overall system architecture tradeoffs and decisions, as well as perform detailed power electronics design – including selection of switching components, loss calculations, cooling system design, magnetics design, and simulation. Must be well versed in motor controller design at medium voltage levels, and have experience with other power conversion electronics, including DC/DC converters, DC/AC inverters, and AC/DC active rectifiers. Power levels are in the 10s of kilowatts to megawatts.

Special Qualifications or Background Needed

Must work well with others, have excellent communications skills – both spoken and written. Will perform a key role in proposal writing and review, including concept formulation, description, and estimation.

- Proficiency in MatLab, Simulink.
- Minimum of BSEE in power electronics. MSEE or PhD in power electronics a plus.
- Minimum of 5 years of directly relevant technical experience.
- Medium Voltage Motor Drive design experience highly desirable.
- Inventions and papers in this field are desirable.
- Active SECRET level security clearance a plus.