



Senior Electromagnetics Engineer

Location

Linthicum, MD

Overview

Perform as the key technical leader on major programs involving rotating machinery and detailed design.

Description of Duties

- Must be able to make overall system architecture tradeoffs and decisions, as well as perform detailed electromagnetics design – including selection and design of components, loss calculations, cooling system design, magnetics design, and simulation. Power levels are in the 10s of kilowatts to megawatts.
- Designs and develops electric machines including permanent magnet, induction, direct current, switched reluctance, synchronous reluctance, and stepper types.

Design and develops other magnetic components including transformers (low frequency, high frequency, planar, and high voltage) and inductors for switching power supplies.

Special Qualifications or Background Needed

- Proficiency in MatLab, Simulink.
- Proficiency in Finite Element Analysis programs for electromagnetic design.
- Minimum of MSEE in electromechanical design. PhD a plus.
- Minimum of 10 years of directly relevant technical experience.
- Inventions and papers in this field are desirable.
- Must be a US citizen. Active SECRET level security clearance a plus..