

Job Title: Electrical Engineer
Reports To: Director of Engineering
Department: Engineering
Exemption Status: Exempt
Full-time / Part-time: Full-Time
Last Reviewed Date: 06/27/2018

Job Summary:

The Electrical Engineer is responsible for the design and evaluation of hardware and control systems to support the development and sustainment of products for aerospace, medical and industrial applications. This engineer is a quick-learner with classroom or professional experience in at least three of the following categories: circuits, electro-magnetics, circuit board design, power systems, control theory, simulation, programming, computer support. Work activities are performed under broad direction and general supervision.

Major Responsibilities:

Responsibilities will vary according to needs of current company projects and initiatives. These responsibilities may include:

- Troubleshooting of circuits, circuit boards and electrical actuators
- Design of new circuits, circuit boards and electrical actuators
- Development of simulation models in MATLAB/Simulink or other tools
- Analysis and simulation of power systems
- Analysis and simulation of power electronics
- Tuning of PID or other controllers, both analog and digital
- Refine existing control algorithms and develop new algorithms as necessary to meet performance requirements
- Maintain revision control of models, drawings and documents
- Software programming for test stands or prototype products
- Resolve obsolescence issues of aging test equipment and software

Minimum Qualifications:

- Bachelor's degree in Engineering

Minimum Competencies:

- Experience using lab equipment such as multi-meters and oscilloscopes
- Ability to work collaboratively with other Engineers
- Experience with a circuit simulation tool, such as SPICE, Cadence, etc.

Preferred Qualifications:

- Hands-on electrical circuit experience

Preferred Competencies:

- Exposure to aircraft systems
- Simulation Experience
- Experience with HBM Perception software
- Experience with MATLAB/Simulink
- Experience taking measurements with differential voltage probes, hall-effect current sensors and current transformers
- Experience in NI LabVIEW, LabWindows
- Experience in C, C++ programming
- Experience in SQL programming
- Experience in a lab, safely working with voltages greater than 500V

Operational Details / Work Environment

- Must be able to travel 25% of the time
- Work will be performed both in an office environment and in a laboratory environment.
- Hearing protection, safety glasses and protective footwear may be required in some workspaces.

Work Authorization / Security Clearance:

This position must meet Export Control compliance requirements, therefore a "US Person" as defined by 22 C.F.R. § 120.15 is required. "US Person" includes US Citizen, lawful permanent resident, refugee, or asylee.

AAP/EEO Statement:

Kaney Aerospace, Inc. provides equal employment opportunity to all individuals regardless of their race, color, creed, religion, gender, age, sexual orientation, national origin, disability, veteran status, or any other characteristic protected by state, federal, or local law. Further, the company takes affirmative action to ensure that applicants are employed and employees are treated during employment without regard to any of these characteristics. Discrimination of any type will not be tolerated.