Electrical Engineers

Job Summary

At Emphysys, we push the boundaries of science, technology and innovation in the development of leading-edge products and solutions for clients in the life sciences, medical device and industrial markets. Using an applied research mindset, our scientists and engineers dedicate themselves to making new discoveries then testing and applying them to drive our clients' concepts further—all the way to market.

We are looking for experienced Electrical Engineers who will design, develop, and test new electrical circuits to support the product development needs of our clients. In this role, you will work closely with clients, scientists, electrical engineers, mechanical engineers, embedded systems engineers, software engineers and technicians in a collaborative, hands-on environment. You will be responsible for evaluating relevant technologies to solve application-specific problems and then develop those technologies into stable, functional, safe, and manufacturable products. You will own the design, simulation and implementation of electrical system designs.

Core Responsibilities

- Research, develop, design and test electrical components, equipment and systems to meet client functional specifications and requirements
- Design and fabricate test control apparatus and equipment and determine methods, procedures and conditions for testing products
- Create circuit designs including component selection, schematic capture, modeling, firmware development and analysis for customer products
- Work with board layout designers to ensure design integrity
- Interface with purchasing and suppliers to ensure optimized component sourcing
- Conduct and document detailed root-cause analysis and address corrective actions
- Conduct/support risk analyses including Fault Tree Analysis (FTA), Operator Misuse Analysis (OMA), and Failure Modes and Effects Analysis (FMEA)
- Debug new designs and develop reliability improvements for existing designs
- Lead or be part of a team in the development of electronic products including system architecture and detailed circuit design/implementation
- Support existing products already deployed at client locations

Qualifications and Skills

- Degree(s) in Electrical Engineering or other engineering field with equivalent experience
- 3+ years of experience in engineering research or product development
- Good written and verbal communication skills
- Excellent organizational skills
- Demonstrated experience with laboratory equipment, electrical assembly/rework and board testing
- Regularly exercises independent judgment and discretion about matters of significance
- **Ability to travel domestically up to 10%**
- Legally eligible to work in the U.S.