



Job Title: Electrical Engineer	Job Code: ELCENG
Department: Engineering	Division: Ithaca, NY
Reports to: Engineering Manager	FLSA Status: Exempt
Hours: Full-time – 40 Hrs/week	Rev Date: 11-24-2021

Primary Function

This position would be responsible for the design and development of electronic systems used in medical devices. This position will support the development efforts required for New Product Development and Sustaining Engineering for products that are used clinically as well as in research areas including: cardiovascular surgery, interventional radiology, and other such areas.

I. Duties and Responsibilities

- Design and develop analog RF and digital circuits for Transonic’s medical devices which meet or exceed Company standards for quality
- Design and develop RF, analog and digital circuit board layouts
- Trouble shooting radio frequency circuits to the component level
- Confirm component capabilities by designing testing methods and developing test procedures and instructions for checking electronic assemblies
- Analyze and make recommendations for improvements in the design and layout of current electronic assemblies and implement approved improvements
- Develop and perform verification testing of new and updated electronic assemblies ensuring adherence to Company quality standards
- Create and update drawings and specification documents for printed circuit assemblies, electro-mechanical subassemblies, and finished medical devices.
- Willingness to perform other work-related duties as requested, directed or assigned by management

II. Working Relationships

- Interact with various disciplines including, but not limited to, Manufacturing, Quality, and Regulatory in regards to the design and development of medical devices.
- Interact with engineers and other personnel necessary to resolve design issues and provide technical information

III. Education and Experience

- Bachelor’s Degree in Electrical and Electronics Engineering or similar field required
- 2-3 years’ experience preferred
- Familiarity and experience with programs for schematic capture, PC board layout, CAD and database programs
- Familiarity with Altium, MultiSim, Ultiboard, and Labview a plus.
- Experience with microcontroller programming and FPGA programming is a plus

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IV. Knowledge, Skills and Abilities

- Must be proficient in MS Office tools such as MS Word and MS Excel
- Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
- Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models
- Knowledge of IPC standards for printed circuit design
- Ability to analyze operational needs and product requirements to create a design
- Able to identify measures or indicators of system performance and the actions needed to improve or correct design issues
- Able to write up project plans and manage projects to be on time/budget
- Able to creatively problem solve delays or roadblocks on project deliverables through communication and coordination with internal and external resources
- An understanding of Medical Design & Development process and standards is considered a plus-from developing User Needs to Design Inputs/Outputs, Risk Management & Controls, Trace Matrix development
- Strong verbal and written communication skills
- Excellent problem solving and time management skills
- Self-motivated and highly organized

V. Supervisory Responsibilities

- No Direct Reports

VI. Physical Demands

- Must be able to lift up to 25 lbs. and to adhere to safety requirements
- Corrected normal vision

VII. Work Environment

- Work environment includes office setting; Test Lab, production floor
- Occasional exposure to elements such as odor, noise, dust, heat, cold or chemicals
- Travel is very minimal and only as necessary

Disclaimer: This Job Description is not intended to be all-inclusive and may be subject to change to include new responsibilities and tasks or change existing ones as management deems necessary to meet the ongoing needs of the company.