



Job Title:	Electrical Engineer	Job Code:	ELCENG
Department:	Engineering	Division:	Ithaca, NY
Reports to:	Director of Meter Engineering	FLSA Status:	Exempt
Hours:	Full-time – 40 Hrs/week	Rev Date:	3-2-2026

Who we are looking for:

Transonic, the originator of innovative volume flow measurement technologies, is seeking a dynamic, analytical, and self-directed Electrical Engineer to join our team. This individual will contribute to next-generation Flowmeter development while also supporting sustaining engineering initiatives across our medical device, life sciences, and OEM product lines.

We are looking for someone who:

- Understands sound engineering design principles and design for manufacturability
- Thrives in a fast-paced, multi-project environment
- Is detail-oriented while maintaining big-picture system thinking
- Takes initiative and ownership from concept through verification and release

This is an opportunity to work on precision instrumentation used in critical surgical, perfusion, ECMO, dialysis, and research applications.

Who we are and what we offer:

Transonic is a small, family-owned company with global reach and ambitious goals. With sales and service divisions in Europe and Asia, our technologies support clinicians, researchers, and OEM partners worldwide. Our solutions help:

- Clinicians obtain accurate, real-time data for critical patient decisions
- Researchers generate reproducible and meaningful scientific measurements
- OEM partners enhance their devices with embedded measurement capability

Several of our products are recognized globally as gold standards due to their innovation, accuracy, and robust design.

We offer:

- Competitive compensation
- Company-paid 401(k) contribution
- Fully company-paid medical insurance
- Paid holidays and vacation
- A collaborative, long-tenured engineering environment
- Exposure to the full product development lifecycle in a regulated medical device setting



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Primary Function

This position is responsible for the design, development, verification, and lifecycle support of electronic systems used in Transonic’s medical devices and life science instrumentation.

As part of a small and highly collaborative engineering team, this role will support:

- New product development
- Sustaining engineering and obsolescence management
- Cost and manufacturability improvements
- Verification and validation activities aligned with medical device design controls

Engineers at Transonic gain broad exposure to the full development lifecycle — from user needs and design inputs through verification, regulatory documentation, production transfer, and post-market support.

I. Duties and Responsibilities

- Design and develop analog, RF, and digital circuits for medical devices
- Design and review analog and digital PCB layouts
- Troubleshoot analog and RF circuits to the component level
- Develop test methods and verification protocols for electronic PCB assemblies
- Perform verification testing to confirm design performance and compliance
- Evaluate and improve existing PCB assemblies for reliability, cost, and manufacturability
- Support component selection, supplier changes, and obsolescence mitigation
- Create and maintain design documentation, drawings, specifications, and ECOs
- Support root cause investigations and corrective actions as needed
- Collaborate cross-functionally to support regulatory submissions and audits
- Perform additional engineering tasks as assigned

II. Working Relationships

- Collaborate with Manufacturing, Quality, Regulatory, and Supply Chain
- Work closely with firmware/software engineers and mechanical engineers
- Interface with contract manufacturers and component suppliers when required
- Contribute technical expertise during cross-functional project reviews

III. Education and Experience

- Bachelor’s Degree in Electrical Engineering or a related field required
- 2-3 years’ experience preferred



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- Experience with programs for schematic capture, PC board layout, CAD and database programs
- Experience with microcontroller programming and FPGA programming is a plus
- Experience in regulated industries (medical device preferred) is a plus

IV. Knowledge, Skills and Abilities

- Must be proficient in MS Office tools such as MS Word and MS Excel
- Strong understanding of analog, RF, and digital circuit design techniques, tools, and principles
- Knowledge of IPC standards and best practices for PCB 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 & 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, to Trace Matrix development is a plus.
- 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

- Office, laboratory, and production floor environment
- Occasional exposure to noise, odors, dust, or chemicals
- Minimal travel as required

Disclaimer: This Job Description is not intended to be all-inclusive and may be modified to reflect evolving business needs.