**Who we are looking for:**

Transonic, the originator of innovative volume flow measurement technologies, is looking for a dynamic, critical-thinking, self-directed initiator who can lead the company’s sensor design and development for our medical device, life-sciences, and OEM markets. We are looking for someone with an understanding of design principles and preferably, designing for manufacturability, to drive our next generation Flowprobe and Flowsensor designs. We are hoping for someone who thrives in a fast-paced environment while still being detail-oriented and who is able to think along with multiple projects and priorities.

**Who we are and what we offer:**

Transonic is a small family company of around 130 staff with big goals. Our sales/service divisions in Europe and Asia provide us with worldwide reach. We develop and pioneer innovative technologies and solutions, often the first of their kind, which help ensure that:

* Our clinicians get the data they need to make critical decisions to improve their patient’s lives,
* Our researchers get the measurement solutions they need to perform better research,
* Our OEM clients can improve the functionality of their devices with our measurement capabilities inside.

Several of our research and clinical products have gained worldwide gold-standard status, largely through their innovative nature, the reproducibility and accuracy of our measurements, and our robust product designs. We support our customers with top-notch training and support materials that demonstrate a deep understanding of our technology, and we go above and beyond to teach our users best practices and to help them implement our measurements. We are a tight knit group with a lot of long-term staff who believe passionately in our solutions and technology and because we are small, there is a lot of room for career growth and development. Decisions are made quickly as a group, and we work hard to make the engineering department an enjoyable place to work where staff feel that they are valued and can contribute as a part of our team. We offer competitive pay & great benefits, such as company paid 401k contributions, full, company-paid medical insurance, paid holidays, vacation and other benefits.

**Primary Function**

We are seeking a Sensor Development Engineer who will play a critical role in the design and development of our next generation Flowprobes and Flowsensors. This will include project management of new Sensor/probe projects, user needs development, mechanical concept development, detailed design, engineering drawing creation, building of sensor prototypes, sensor testing, cost/performance optimization, the ability to use principles of design for manufacturability and transferring of final designs to manufacturing via ECO creation. This position will spearhead new designs & improvements for our existing Flowprobes & Flowsensors as well as novel OEM client work for our medical device manufacturers.

**Duties and Responsibilities**

* Maintain awareness of new technologies, scientific developments, design software and hardware capabilities, as well as software tools to improve functionality of our products
* Learn and understand the theories of measurement for our product lines, understand calibration requirements
* Build project plans and manage time wisely for next generation design release.
* Gather user needs and understand use cases & applications for next gen design projects
* Occasionally work with R&D to integrate novel technologies and measurements into designs
* Develop mechanical concepts & create engineering drawings for new Flowsensors & Flowprobes
* Investigate and develop sensor materials and technologies to improve designs.
* Utilize best practices of Design for Manufacturability to create new sensors at the lowest cost of manufacturing while attaining desired product functionality & robustness.
* Build and test new sensor prototypes
* Create Engineering Change Orders and BOMs for release to manufacturing
* Document & train manufacturing engineering staff on build process and help create work instructions for assembly
* Willingness to perform other duties as requested, directed or assigned by Management

**Working Relationships**

* Work cooperatively with the meter and software engineering teams as well as R&D for new product development and refinement of existing sensors and probes.
* Work closely with other areas of the company (Marketing, Purchasing, Manufacturing Engineering, etc) throughout the development cycle of new Flowprobe/Flowsensor designs – to define user needs, identify cost targets, manufacturing needs, service & repair needs, etc.

**Education, Experience, Skills & Abilities**

* The ideal candidate must have a strong technical aptitude
* Experience in project management & project management software preferred
* Knowledge of both electrical and mechanical design preferred
* 3-5 years of applicable engineering experience
* Working knowledge of materials such as plastics, epoxies, stainless steel, etc.
* Working knowledge of design drafting standards
* Proficient in 3D solid modeling software - preferably SolidWorks
* Working knowledge of tolerances and stack-up analysis.
* Excellent technical communication (verbal and written)
* Working knowledge of Microsoft Office software.
* Bachelor’s in Mechanical Engineering, Biomedical Engineering with Mechanical Engineering courses or related degree preferred

**Supervisory Responsibilities**

* None

**Physical Demands & Work Environment**

• Position requires sitting, standing, stooping, reaching, lifting/carrying typically less than 25 lbs., talking and walking; includes use of computers, printers, copiers and other office equipment primarily in an open cubicle, office environment

• May also include working with testing equipment and tools with occasional exposure to elements such as odor, noise, dust, heat, cold and/or chemicals in a manufacturing/production environment, machine hop and test labs

• Must be capable and willing to adhere to safety requirements

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.