Senior R&D Engineer

**SAN JOSE, CA /R&D /FULL-TIME/ ON-SITE**

Company is a surgical*robotics*company enabling better patient care by developing transformative solutions in urology. With an initial focus on BPH, the company’s AquaBeam®*Robotic*System delivering Aquablation therapy, is the first FDA-cleared, automated surgical robot for the treatment of [lower urinary tract symptoms (LUTS)](https://aquablation.com/life-with-bph/#signs-and-symptoms-of-bph) due to benign prostatic hyperplasia (BPH). Aquablation therapy combines real-time, multi-dimensional imaging, automated*robotics*and heat-free waterjet ablation for targeted, controlled, and immediate removal of prostate tissue. Aquablation therapy offers predictable and reproducible outcomes, independent of prostate anatomy, prostate size or surgeon experience.

**SUMMARY**

This position is meant to perform a wide variety of research and/or development tasks and/or experiments. This position will be responsible for supporting the existing and next generation Aquablation System design optimized for clinical effectiveness and low-*cost* *manufacturing*.

**CORE RESPONSIBILITIES**

* + Fully participates in and successfully contributes to project teams typically including the following activities: product design and development, test of materials, preparation of specifications, process capability studies, research investigations (animal and clinical studies), report preparation, and process/test documentation
  + Works independently to plan and schedule own activities necessary to meet timelines
  + Designs and coordinates standard engineering tests and experiments
  + Designs, procures, and fabricates tooling and fixtures
  + Performs troubleshooting on new products/process problems as related to design, material, or process
  + Summarizes, analyzes, and draws conclusions from test results
  + Prepares standard reports/documentation to communicate results to technical community
  + Responsible for engineering documentation
  + Invents/ creates concepts and designs for new products/processes, and submits idea disclosures
  + May train and/or provide work direction to technicians
  + Works cooperatively with process development, *quality*, *manufacturing*, regulatory, clinical, and marketing to ensure project success
  + Demonstrates*medical device*design controls knowledge through delivery of high-*quality* deliverables
  + Design and develop robust*mechanical*and optical assemblies for a*medical device*that will be scaled to large volumes
  + Work with other engineers, clinicians, regulatory and marketing to translate technical requirements to product specifications
  + Interface with vendors for*component*sourcing and fabrication
  + Assist in the development of*manufacturing*fixtures and instrumentation
  + Develop assembly and test procedures
  + Independently manage projects and outside consultants
  + Support prototype clinical*devices*in the field
  + Maintain trained status for, and comply with, all relevant aspects of the company *Quality Management* System to ensure product and support regulatory compliance
  + Understand and adhere to the company*Quality*and EHS policies

**QUALIFICATIONS (Education, Experience, Certifications)**

* + To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.
  + Required:
  + BS/MS*Mechanical*Engineering (or equivalent)
  + 5+ years of related experience
  + Excellent computer skills with specific skills in Microsoft Office and working knowledge of*CAD*(*Solidworks* or other) software
  + Good verbal and written communication skills
  + Test method development
  + Statistical analysis of various types of data
  + Design of experiments (DOE)
  + 3D modeling (*Solidworks* or Pro Engineer)
  + 2D*CAD*(Auto *CAD*,*Solidworks*or Pro Engineer)
  + Strong written and oral communication skills
  + Desired:
  + Basic shop tools and machine tool experience a plus

**PHYSICAL DEMANDS**

* + The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.
  + The employee is occasionally required to attend animal or cadaver labs and to manipulate models and/or organs for testing
  + The employee may occasionally lift and/or move up to up to 50 pounds.

**WORK ENVIRONMENT**

* + The employee will frequently be exposed to engineering labs, a machine shop, and*manufacturing*clean rooms. The environment is subject to moderate noise from machinery (IE machine shop equipment, the company Aquablation unit, computer equipment, printers, etc.), for which proper hearing protection may be assigned and worn.
  + The employee may be exposed to hazards including*electrical*sparking, water, and chemicals, for which proper protective equipment will be assigned and worn.
  + The employee will occasionally be exposed to clinical operating rooms, for which proper personal protection equipment will be assigned and worn.

**COVID-I9 Vaccine Requirement:**As of August 19, 2021, all company employees must be vaccinated against the COVID-19 virus. The company will follow an accommodation process for*medical*or religious exemptions.