Electro*Mechanical*Engineer - Test and Reliability Engineering

**SAN JOSE, CA /RAQA /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**

Are you interested in contributing to the reliability of products? Are you looking to be part of an enthusiastic, driven, passionate and challenging team, who continuously learn from one another?   Are you detailed oriented? Imagine what you could do here. At company you will be part of a team to work on a surgical robot that combines real time data, multi-dimensional imaging, and*robotics*to remove prostate tissue. As this company continues to expand, the Design*quality*Assurance group requires an Electro*Mechanical*Engineer (Test and Reliability Engineering) to work on the ongoing reliability and testing activities. You will work with cross functional teams on reliability projects. The Reliability Engineer is responsible for working with product development and sustaining teams to ensure the company is developing highly reliable products through the application of reliability tools (e.g., Weibull Analysis, Failure Mode Effects & Criticality Analysis, Fault Tree Analysis, Structured problem solving, Reliability modeling, Reliability predictions, Reliability testing, etc.).

**CORE RESPONSIBILITIES**

* + Responsible for evaluating and demonstrating the reliability of *mechanical*, *electrical*, and electronic components of a complex*medical robotics* system and coordinate multi-functional activities as part of overall reliability plan
	+ Participating as a key member of new product development teams to ensure the reliability of new and modified*robotics*products and reliability goals
	+ Responsible for reliability requirements and the development of new reliability test specifications, methodologies, and coverage to ensure product reliability for next generation products and current products
	+ Responsible for design, testing, document, and release of reliability tests protocols and reports with detailed status and tracking of activities
	+ Responsible for generating Fault Tree Analysis and other problem-solving technique (e.g., 8D technique, 5 Why’s technique, fish bone diagram etc.) for risk analysis
	+ Responsible for data analysis using tools (e.g., Weibull software, Statistical Process Control (SPC), Reliability Modeling/Prediction/Test data analysis)
	+ Maintain trained status for, and comply with, all relevant aspects of the company’s*Quality Management* System to ensure product and support regulatory compliance
	+ Understand and adhere to the company*Quality*& 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:**
	+ Bachelor’s degree with 2-year relevant experience or master’s degree with 1-year relevant experience in *Mechanical*, Biomedical or*Electrical*Engineering
	+ Understanding of statistical processes and techniques such as Prediction and Weibull analysis
	+ Understanding of HALT/HASS testing methodology
	+ Understanding of*mechanical*Stress Tests, Shock/Drop/Vibration Testing, Environmental Testing
	+ Understanding of Risk*management*activities like Fault Tree Analysis, design and process FMEA, etc.
	+ Ability to work well with team and able to accomplish objectives with minimal supervision
	+ Ability to write reports, business correspondence, and procedure manuals
	+ Strong written and oral communication skills
	+ **Desired:**
	+ ASQ CQE, or CRE certification preferred
	+ Knowledge of industry test Standards (e.g., ASTM, IEEE, *IEC*, etc.)
	+ Background in*electromechanical*and software*devices*
	+ 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 occasionally packs and unpacks packages
	+ The employee may occasionally lift and/or move up to up to 50 pounds.

**WORK ENVIRONMENT**

* + The employee will occasionally 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.
	+ While performing the duties of this job, the employee is regularly working in a warehouse environment.

**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.