



**JOB DESCRIPTION – MECHANICAL DEVELOPER INTERN –
16 months - May 2021 to August 2022 inclusive**

Description	
Job Title	Mechanical Developer Intern – 16 months - May 2021 to August 2022
Reports to Title	Mechanical Engineering Manager
General Accountability	<p>Our mission is to Profoundly change the standard of care by creating a tomorrow where clinicians can confidently ablate tissue with precision; a tomorrow where patients have access to safe and effective treatment options, so they can quickly return to their daily lives. Changing the standard of care is part of our fabric. We are a group of energetic, problem-solvers focused on innovation, and looking to change the world. We are changing the paradigm for treating diseases such as prostate cancer by using real-time MR Imaging, thermal ultrasound and close-loop temperature feedback control, to gently ablate the diseased tissue with minimal side effects.</p> <p>If you share our values and want to work in a collaborative results focused culture and want to make a Profound impact in healthcare and your career, here is your chance.</p> <p>The Mechanical Developer Intern is involved in mechanical aspects of the TULSA-PRO system from through R&D to manufacturing.</p>
Duties and Responsibilities	<p>Duties and responsibilities will include (but are not limited to):</p> <ol style="list-style-type: none">1. Working in the lab to perform tasks such as conducting experiments and developing prototypes2. Update design specifications, assembly processes and other technical documentation for the mechanical aspects of the company's products and test fixtures.3. Collaborating in a team to design products, assembly jigs, and test fixtures.4. Build early concepts of new designs and prototypes.5. Execute design verification and validation activities as required6. Produce DHF and DMR documentation for transfer to test/manufacturing.7. Contact suppliers as needed.8. Support in-house production as needed9. Investigate product complaints by performing root cause analysis of failures, and proposing solutions in a timely fashion10. Produce CAD Models, engineering drawings and BOMs for custom parts and assemblies.11. Perform all duties in compliance with the quality management system
Competencies	
Education	Mechanical Engineering or similar undergraduate degree in process Completion of 3 rd year preferred

Certifications	None
Key Attributes (experience, skills and technical knowledge)	<p>Required:</p> <ul style="list-style-type: none"> ▪ Ability to come into the office daily to perform necessary tasks in the lab ▪ Familiarity with SolidWorks, preferable to be a Certified SOLIDWORKS Associate (CSWA) or have higher certification. ▪ Excellent verbal and written skills. Ability to communicate quickly, clearly, and concisely. ▪ Mechanical aptitude including ability to use common shop tools and measurement equipment. ▪ Tenacious problem solver, organized, detail oriented ▪ Ability to troubleshoot problems and perform root cause analysis. ▪ Ability to adapt to different scenarios and fast learner ▪ Ability to collaborate with others <p>Desired:</p> <ul style="list-style-type: none"> ▪ Experience working with MR compatible devices and therapeutic ultrasound devices. ▪ Knowledge of electromechanical design ▪ Familiar with mechatronics components sizing and sourcing ▪ Experience working with microcontrollers. ▪ Familiar with Python and MATLAB. ▪ Working knowledge of industrial design ▪ Experience working with sterilization and disinfection methods ▪ Experience with statistical analysis ▪ Knowledge of manufacturing processes such as machining, injection molding, urethane casting, 3D printing and sheet metal