Title: Research Scientist  
Department: Research and Development  
Position Location: Charlotte  
Reports To: Chief Technology Officer  
Date Prepared: July 26, 2016  
FLSA Status: Exempt

Summary

The Research Scientist will contribute towards the development, evaluation, and productization of SonaCare Medical’s new and current therapeutic products and devices, as part of a multidisciplinary team of scientists, researchers, engineers, clinical specialists, regulatory experts and marketing personnel.

Duties and Responsibilities

- Invent, create, design, construct, test, and validate novel and next-generation therapeutic ultrasound devices, systems, and procedures in a benchtop, pre-clinical, and clinical setting (“bench to bedside”).
- Assist in the productization/market introduction of such devices, systems, and procedures.
- Closely collaborate with internal engineering teams, the quality/regulatory group, and external academic, commercial, pre-clinical, and clinical partners to implement and accomplish above goals to meet applicable industry standards including the FDA Quality System Regulation, ISO 13485 and the Medical Device Directive.
- Lead sub-projects, define and maintain budgets and timelines, and generate progress/project updates to accomplish above goals.
- Create intellectual property, write technical reports and product documentation, publish peer-reviewed manuscripts, assist with regulatory filings.
- All other duties, as assigned.

Qualifications/Specifications

- MS in electrical engineering, biomedical engineering, physics, or equivalent and at least 5 years of research experience.
- At least 5 years in therapeutic ultrasound research and product development experience with applicable clinical relevance.
- Strong communication skills in written and verbal English.
- Theoretical and working (“hands-on”) knowledge and experience in many of the following areas: acoustics, therapeutic ultrasound, imaging ultrasound, phased arrays and driving electronics and design, ultrasound transducers, beamforming, bioeffects of ultrasound (hyperthermia, ablation, rapid heating, sonoporation, agent delivery, tissue sensitization, non-thermal effects, etc.), signal processing, acoustic system characterization, pre-clinical and clinical protocol development and execution, experiment design.
Strong software skills (Matlab/C/C++/C#/LabView), proven skills in real-time signal processing, and experience with algorithm design and implementation.

Solid understanding of therapeutic ultrasound system development, including prototyping, pre-production development, and design for usability/manufacturability/serviceability.

Quality System and Regulatory background, preferred (FDA, CE, IRB, IACUC, CFR, etc.).

Acknowledgement
I have read my job description and I understand that this job description is a general description of essential job functions. It is not intended as an employment contract, nor is it intended to describe all duties someone in this position may perform. All employees of the company are expected to perform tasks as assigned by supervisory/management personnel, regardless of job title or routine job duties.