

Sr Principal Research Scientist

Job Summary:

We are looking for a highly motivated Research Scientist who wants to play a key role in developing a novel therapy for patients with Acute Decompensated Heart Failure (ADHF). The ideal candidate has strong data science experience and domain knowledge in heart failure physiology. We are a growing company with a team of highly dedicated professionals who are focused on creating a meaningful solution for patients with ADHF.

Job Responsibilities and Duties:

This Research Scientist will play a vital role in developing a neuromodulation therapy to improve the outcomes for patients hospitalized with ADHF. This role will be responsible for understanding disease progression and the mechanism for ADHF. The Research Scientist will be responsible for determining how stimulation impacts ADHF patients and how these patients respond to therapy. The Research Scientist will be responsible for developing the stimulation protocol along with supporting the execution of stimulation during the cases in the clinical studies.

Additionally, the Scientist will work collaboratively with internal and external stakeholders to understand what data is needed during pre-clinical and clinical studies to aid in recruitment in clinical studies, regulatory approval and commercial adoption. The Scientist will be involved in the strategic development of study protocols, on-going data review and interpretation in pre-clinical and clinical studies, and contribution to study reports and publications. In addition, the Research Scientist will interface with physicians, regulatory agencies, and vendors to support the pre-clinical and clinical work. It is expected that the Scientist has experience in and will be involved in the life-cycle of the system including Concept, Design, Verification/Validation, Clinical, Regulatory, and Commercial release.

Qualifications and Skills:

- Must have at least 10 years of related experience, preferably in the field of heart failure. Knowledge of heart failure, cardiac anatomy and physiology is required.
- Advanced degree or equivalent education (i.e., MS or PhD) /degree in life science/healthcare is required.
- Experience using MATLAB to perform data analysis on signal processing of pressure and EKG data.
- Familiarity with neurostimulation and/or electrophysiology techniques.
- Ability to lead pre-clinical studies, including animal model development, study design, protocol development, technical writing, regulated studies (GLP).
- Experience working with cadavers to understand nerve pathways and procedure development.
- Experience managing and working with pre-clinical contract organizations.

- Understanding of clinical research methodology including study design, protocol writing, and data collection is required, as well as FDA and local regulatory requirements. Strong understanding of biostatistics and data management.
- Experience in procedure development and observation in a hospital environment.
- Experience working with imaging modalities including fluoroscopy, CT and echocardiography.
- Experience with hazard analysis and other risk assessments.
- Strong communicator, including the ability to present results and train as needed.
- Demonstrated ability to work effectively with physicians, clinical consultants and scientific advisors.
- Ability to work with minimal direction.
- Responds to changing business demands and opportunities.
- Capable of working in a fast paced, small company atmosphere. Able to identify and evaluate inside and outside resources to accomplish tasks.
- Critical thinking and analytical skills, data analysis, data interpretation, make recommendations for course of action.

Working conditions:

This is an office-based position that will require travel up to 15% time, including international travel. Travel will increase during clinical study execution and be less during the development phase.