

## Principal or Senior Electrical Engineer

### Job Summary:

We're looking for a talented Electrical Engineer who has the experience, dedication, and technical skills necessary to help define, create, and implement complex and critical features of our neuromodulation system. We're a small, nimble, focused company with a team of highly dedicated professionals who are focused on creating a meaningful solution for patients with Acute Decompensated Heart Failure (ADHF).

### Job Responsibilities and Duties:

Own the definition, creation, verification, and maintenance of complex and critical features of our neuromodulation system. Serve as a member of the product development team by participating in and collaborating on all aspects of product development including Concept, Design, Verification/Validation, Clinical, Regulatory, and Commercial release.

### Qualifications and Skills:

- Required:
  - BS or MS in Electrical Engineering with 10+ years of experience working under FDA design control processes. Experience with regulated quality systems.
  - 5+ years of Electrical design and/or test experience, from concept to production release, including design, documentation, and verification/validation of active implantable devices such as pacemakers and defibrillators.
  - Demonstrated ability to lead discussions that resolve open questions or ambiguities regarding requirements and designs. Ability and background to turn abstract requirements and ideas into pragmatic, implementable designs.
  - Experience performing electrical and system verification and validation activities, including test method development.
  - Ability to execute, understand, and report on ICD and Pacemaker compatibility testing.
  - Knowledge of filtering and noise cancelling techniques.
  - Experience with and understanding of analog and digital electronics. Can troubleshoot to component level of printed circuit board assemblies.
  - Working knowledge of microprocessor/microcontroller firmware, PC/Tablet hardware software and OS. Working knowledge of C programming language.
  - Working knowledge of applicable medical electrical equipment, EMC, usability, and risk management standards
    - IEC 60601-1
    - ISO 14971
    - IEC 60601-1-27
  - Strong analytical skills with a demonstrated ability to solve complex problems across electrical, mechanical, and software elements.
  - Ability to manage, organize, and oversee OEM development activities of hardware and software.
  - Ability to travel periodically, including some international travel. Required travel time will vary with project phase (less in development phase, more in clinical phase).
  - Experience with Hazard Analysis and other risk management techniques.
  - Strong organizational and communication skills. Ability to manage multiple projects.

- Ability to work independently.
- Exercises substantial independent technical judgement in assigned tasks, work methods and goal interpretation.
- Experience and comfort with pre-clinical and clinical activities, including procedure observation and concept evaluation.
- Capable of working in a fast paced, small company atmosphere. Able to identify and evaluate inside and outside resources to accomplish tasks.
- Preferred
  - MATLAB experience.
  - Algorithm definition and testing experience.
  - Experience using an Issue Tracking system. Experience capturing issues and observations, putting them into an Issue Tracking system, hosting meetings to discuss/disposition issues, and leading discussions that culminate in closure of issues.
  - Familiar with neurostimulation and/or electrophysiology techniques.
  - Skilled with physiological sensors (especially pressure and impedance) and associated signal processing techniques.
  - Familiar with schematic capture (OrCAD), and other engineering design tools.
  - Familiar with AD Instrument's PowerLab and Chart physiologic data acquisition system.
  - Familiar with Low power battery operated systems.
  - Experience with test fixture design and fabrication.