

Director of Systems Engineering

Position Description

The Director of Systems Engineering will primarily be responsible for system architecture, interface definition, system integration and test. In order to maintain a technical focus the Director of Systems Engineering will partner Project Manager to coordinate activities, drive documentation & schedules, enforce operational procedures, and manage vendor activities.

During the early stages of the company, the Director will be responsible for electrical and software components of the Immune System Pacemaker. Working directly for the V.P. of Engineering the selected candidate will manage the work with a team of consultants and other skilled engineers, technicians, and assemblers as required. Component designs will include external product and research stimulators, sensing systems, programmers, and radio frequency telemetry links. The candidate will be involved in all phases of specification, design input, testing, preclinical, and clinical testing. Once feasibility tests are complete, the Director will work with project management and leaders inside and outside the company to define the product and help build an electrical and software team to execute the design. The Director will maintain a customer driven focus to ensure the entire system meets the customer needs. The Director will be responsible for holding the entire engineering team to the highest engineering standards during execution through the entire design cycle.

Position Responsibilities

- Understand the applied science of the Cholinergic Inflammatory Pathway to create a foundation from which to create products to modulate the immune system.
- Define the system architectures, system verification plans, and the requirements for electrical and software components for feasibility and product designs.
- Work with physicians, scientists, and professionals within the company to generate these requirements.
- Create designs and intellectual property to address the requirements and protect the field of use.
- Design, write protocols, conduct and report preclinical research studies to answer product development questions, validate designs, and fulfill regulatory requirements following operation procedures.
- Interact closely with marketing, scientists, and clinicians in order to effectively integrate concepts into products and evaluate product concepts.

- Provide technical and educational support to Product Development, Marketing, Clinical, Regulatory, Operations, and Sales.
- Remain current with technology.
- Work with vendors to maximize our speed of execution and operational efficiency.

Qualifications

- BSEE or equivalent at a minimum
- The highest of ethical standards
- 10 years of design of Class III active Implantable devices, specifically active implantable devices that have reached commercialization.
- Proven record of building a team and leading a highly technical team of engineers.
- Track Record in generating Patents.
- Experience testing designs in animals and humans.
- Experience managing products from conception to successful transition into manufacturing.
- Ability to lead peers and influence senior staff required, as are written/verbal communication and presentation skills and the ability to interact with people at all levels