

## Principal Mechanical Engineer

**POSITION REPORTS TO:** Sr. Director, Hardware R&D

**POSITIONS SUPERVISED:** May supervise personnel or provide work direction for various staff.

**POSITION SUMMARY:** Researches, plans, designs and documents mechanical and electromechanical parts and assemblies. Coordinates and carries out activities involved in documentation, production, testing, operation and repair of mechanical or electromechanical parts and assemblies. Applies advanced theoretical analysis to the optimization of such assemblies.

You will be considered a specialist in the field. May lead project modules and may have supervisory responsibilities.

### **ESSENTIAL DUTIES AND RESPONSIBILITIES:**

- Design and develop patient wearable devices and device components for medical device products.
- Design and develop fixtures and hardware for the manufacture and testing of implants.
- Conduct brainstorming sessions and design reviews, build prototypes, release designs under design control and document control.
- Develop, document and validate new processes for various manufacturing operations relating to new implant designs.
- Execute/manage small to medium sized projects, perform project design and status review presentations for technical area of responsibility. Acts as both a leader and design engineer where appropriate in projects.

**EDUCATION/CERTIFICATION:** BS or MS in mechanical engineering or related field from an accredited college or university.

**EXPERIENCE REQUIRED:** 10 years of related experience and/or training; or equivalent combination of education and experience.

### **REQUIRED KNOWLEDGE/SKILLS/ABILITIES:**

- Experience with engineering drawings using 2D and 3D CAD software (e.g. AutoCad and SolidWorks).
- Experience in design for plastic injection molding and CNC machining.
- Experience with basic machine shop tools.
- Experience in design control.
- Experience with verification and validation testing and documentation.
- Experience with selection and management of manufacturing vendors.
- Motivated, highly organized, able to manage multiple tasks at one time.
- Strong communication skills and the ability to function in team environment.
- Experience in the medical device industry or pharmaceutical industry is critical. Experience in another regulated industry may substitute depending on the candidate's strengths.
- Experience with managing small to medium sized engineering projects.