



## **Program Manager- Project Engineering** **Member of: R&D- Fusion Products- exempt**

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**The Position:** Biomechanical engineer with project responsibility including beginning to end activities on new product development. Day to day activities range from: determine project goals, design & detail solutions, to commercializing product in production volume. Engineers at this level carry multiple projects.

### **Project Responsibilities:**

- Manage cross-functional team throughout the development process.
- Understand/document project goals. Create budgets & timelines by project.
- Manage intellectual property: development of patents or reviewing patents for freedom to operate.
- Design history file creation & maintenance.
- Product line authority- signature authority for documentation in an engineering capacity.
- Work directly with surgeons & surgical staff in an Operating Room environment.
- Work with surgeons, sales, & marketing to reduce concepts into reality.
- Solve surgical problems by applying engineering solutions through mechanical hardware.
- Create 3-D CAD models & fully detail engineering drawings autonomously.
- Correctly apply Geometric tolerancing & dimensioning to engineering drawings.
- Write test protocols, carry out product testing to verify/validate product safety.
- Identify/design QC control gages and other fabrication related hardware for project parts.
- Work w/suppliers to ensure products are cost effectively designed for manufacturability.
- Practical experience w/metallic & non-metallic materials; full understanding of material properties.
- Write mechanical test protocols, test reports, and ensure product designs are safe & effective.

### **General Responsibilities:**

- Serve as senior technical counsel for formal design reviews.
- Proficiency with business processes including business plans, marketing, finance, etc.
- Serve as company's resident "expert" in technology area/assignments.
- Work with "project" customers: surgeons, marketing staff, & technical sales force.
- Drive projects internally with planning, receiving/inspection, and distribution services.
- Must be proficient with all aspects of engineering, not just development. These proficiencies are required. They include: 3-D modeling, detailing/drafting, manufacturing, QC control/gage design.
- Manage more junior level engineers on less complicated projects. Direct responsibility for the success of subordinates.

### **Job requirements:**

#### **Experience/Education:**

- Bachelors' degree in mechanical or biomechanical engineering preferred.
- Experience: Minimum 15 years mechanical design or 10 years orthopedic mechanical design. At least 3 years experience directly related to spinal orthopedics is required.
- Extensive exposure to a machine shop environment. Must understand how product is machined, cast, forged, or formed.
- Work experience in a regulated industry required; experience with medical devices desired.

#### **Specific Skills:**

- Self-starter, detail oriented, and able to work autonomously.
- Extensive knowledge of CAD systems, preferably Solid-Works or Pro Engineer.
- Knowledge of Microsoft applications- proficiency in Excel, Project, and PowerPoint required.
- Must possess strong mechanical designing skills.
- Proficient with writing and preparing technical reports.
- Must be able to work on various projects as priorities change or directives are adjusted.

**Supervisory Responsibility:** this position will have direct report(s) and will interface with those reports regularly. This position requires no day-to-day direction from management.

#### **Working Conditions:**

- Thrive in a regulated environment; must adhere to design control procedures.
- Rewarded for results / not activity.
- Must be adaptable to ever-changing situations.
- Extensive travel required, at least 1-2 trips per month.