



*A Step Ahead in Foot and Ankle Surgery.™*

## **Sr. Product Development Engineer**

### **Job Description**

The Sr. Product Development Engineer is the team/project leader reporting directly to the Director of R&D and is responsible for the timely and quality execution and management of assigned design and development projects in order to meet the Company's short term and long term goals.

This individual will be responsible for participating in and/or organizing key customer interactions and communications in partnership with the sales and marketing team to document and develop design concepts and develop them through full production launch and maintenance in accordance with the Company's design quality system. This candidate should be knowledgeable and vigilant with IP protection of the Company's ideas and products. This candidate must be a "hands on" development professional who possesses excellent CAD knowledge and skills (SolidWorks preferred) for the creation of parametric models that drive the creation of ASME Y14.5 compliant manufacturable prints. This individual must also be extremely detail oriented and able to demonstrate strong organizational and communication skills, along with familiarity with MS Office computer software including Word, Excel, PowerPoint, and Project. This job includes the necessity to travel 20-30% of the time when needed to attend surgeon meetings, vendor site visits, trade shows, etc.

### **Qualifications & Responsibilities**

The ideal candidate will possess/demonstrate:

- Ability to lead, participate in, and support the following product development activities: concept, planning, design and execution stages of major new products or product enhancements, Risk assessment, Prototyping, Design for Mfg. and Design for Inspection, Testing (Protocol authorship, Physical Testing, and Test Report generation), Pilot Production, Design reviews, Verification, Validation, Pre-production.
- Ability to interact with remote and internal design and manufacturing resources to design for manufacturability, reliability and cost-effectiveness.
- Ability to listen to customers and generate product inputs that define the design of entire systems as well as detailed components of the systems.
- Experience with material selection, manufacturing methods, inspection techniques and critical measuring.
- Extensive knowledge of 3D CAD design and print generation (SolidWorks preferred) implementing appropriate ISO standards, DFM & DFI principles, and GD&T.
- Ability to communicate ideas, schedules, budgets, and testing results effectively to team members, surgeons, and executive management.
- A willingness to work directly with cadavers and in surgical situations.



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- Ability and willingness to research design options and perform experiments to determine potential design feasibility and design for manufacturability and inspection.
- Willingness to be a productive member of cross-functional teams to assist in the creation of design documents for assigned projects, as required by applicable medical device standards and internal procedures.

### **Other Key Requirements:**

- Bachelor's degree in Mechanical Engineering or equivalent engineering discipline with 5-7 years of mechanical design and /or manufacturing experience, of which 3+ years of actual product development experience bringing product through a full development cycle in a regulated industry is required. (Preference is given to medical device development.)
- Must demonstrate strong interpersonal and verbal/written communication skills.
- Must be willing to travel ~20% - 30% of the time for trade shows, labs, surgeon training events, etc.
- Must be a team player; must work collaboratively and productively with other business constituents to meet company goals and objectives.