

Position Title: Senior Design Engineer – Medical Devices

Date: 01/10/18

COMPANY OVERVIEW:

Catapult Product Development provides full service medical device product development from concept through commercialization. We are a small group of hands-on engineers who work with our customers on complex design ideas turning those concepts into viable devices. We focus exclusively on medical devices and combine a passion for engineering with solid expertise to offer practical solutions in a wide range of clinical subspecialties including surgical tools, in-vitro diagnostics equipment, drug delivery devices, single use disposables, and home-use medical devices.

GENERAL SUMMARY:

This individual will participate in the full breadth of the product development process (from concept to transfer to manufacture) for medical devices as part of a tight-knit, highly collaborative team in a fast-paced environment. We are seeking an individual with a deep knowledge and love of mechanical and product design to join our team.

ESSENTIAL JOB FUNCTIONS*:

- Conceive and develop new medical device concepts from initial design to clinical builds
- Participate in concept stage brainstorms, building proof-of-concept prototypes and developing new technologies
- Mechanical design of early product concepts, detailed designs and appropriate fixturing, including 3D CAD and mechanical drawings
- Design and incorporate new methodologies, materials, machines, processes or products in the development process.
- Work directly with clients, serving as a design resource and essential team member
- Conduct feasibility and/ verification studies of the design to ensure intended function
- Participate in risk analysis for products under development
- Coordinate activities with outside suppliers and consultants to ensure the delivery of supplies or services needed to meet scheduled timelines
- Help maintain a team-oriented culture where collaboration and group achievement are valued

OTHER DUTIES AND RESPONSIBILITIES

Any other duties as assigned.

PREPARATION, KNOWLEDGE, SKILLS & ABILITIES:

- B.S. in Mechanical Engineering
- 4-10 years of product design and development experience
- 3D CAD expertise is essential, preferably SolidWorks
- Experience in medical device product development is highly desirable
- Flexibility, persistence, resourcefulness, a drive to succeed, and an entrepreneurial spirit
- Expertise in mechanical dimensioning and tolerancing for components ranging from machined to injection molded, sheet metal to 3-D printed materials
- Ability to work with experts in other disciplines on complex electromechanical systems and cross-functional projects
- Knowledge of product development process in an FDA regulated environment
- Ability to interact with client companies in a professional manner
- Knowledge of regulatory compliance requirements, design controls, and risk management

REQUIRED COMPETENCIES

Customer Focus

Provide professional, reliable and prompt service to internal and external customers. Work in partnership with others to meet and exceed customer expectations. Interpret customers' needs and take appropriate action. Follow through on customers' inquiries in a professional and timely manner.

Development of Creative Solutions

Provide our clients with comprehensive and actionable solutions to difficult problems. Think creatively and develop novel methods for implementing technologies and inventing new products. Work within a small, multidisciplinary team to develop new products for the medical device industry.

SUPERVISORY RESPONSIBILITY:

None

WORKING CONDITIONS/PHYSICAL DEMANDS:

Must be able to move throughout office and laboratory space, using a complete variety of office equipment and laboratory machinery and tools. Must be able to lift more than 50 pounds and stand for extended periods of time. Must tolerate exposure to chemicals found in the Catapult laboratory environment.

KEYWORDS:

Mechanical, mechanical engineer, design engineer, medical device, development, product development, SolidWorks



JOB DESCRIPTION

The above statements are intended to describe the general nature and level of work being performed by people assigned to do this job. The above is not intended to be an exhaustive list of all responsibilities and duties required.

***External and internal applicants, as well as position incumbents who become disabled as defined under the Americans with Disabilities Act must be able to perform the essential job functions (as listed) either unaided or with the assistance of a reasonable accommodation to be determined by management on a case by case basis.**