

Senior Mechanical Design Engineer

Why RevMedica:

RevMedica is an early stage, pre-revenue surgical device startup. You will be the first full time employee, reporting directly to the CEO and CTO. In this role, you will have a chance to rapidly grow as the company grows. An ideal candidate will ultimately lead the product development team as they are hired on to support product development.

Responsibilities Include:

- Grow and maintain technical knowledge related to product development of electromechanical laparoscopic devices.
- Develop and implement early phase mechanical concept design, perform tolerance analysis, finite element analysis or other design analysis.
- Design components to be manufactured via plastic injection molding, stamping, machining, extrusion, and related processes. Work with local suppliers to consider high volume assembly processes in design concepts.
- Design of fixtures to support data collection and/or laboratory pilot builds.
- Help ensure designs meet and exceed product specifications, regulatory requirements, and international standards.
- Provide technical feasibility assessments.
- Translate voice of customer (VOC) feedback into engineering design requirements.
- Perform simulated use testing on cadavers, tissue, or equivalent.
- Help develop specifications, test methodologies, and test equipment to evaluate design concepts.

Perform calculations, analyses, and engineering testing to verify the designs. Document results in reports and laboratory notebooks.

- Create and release engineering drawings.
- Process engineering change orders.
- Work with suppliers to ensure components meet design requirements & diagnose design problems.
- Travel to vendor locations and customers as needed to help ensure programs meeting deadlines and troubleshoot issues.
- Present technical findings or project status to management team, board members and investors through meeting minutes, design reviews, presentations and other means of communication.
- Recommends various technology options or approaches for system, processes, facility or program improvements in terms of safety, performance, efficiency or costs.

- Must at times wear multiple hats and support, assembly, testing and ultimately the sales process
- Up to 20% domestic and/or international travel.

Must Have: Minimum Qualifications

- 8+ year with BS in Mechanical Engineering, or Biomedical Engineering, or Design and Industrial Engineering

or

- 6+ year with MS in Mechanical Engineering or Biomedical Engineering
- Compensation and job title will be adjusted based on candidate's education background and experience.

Specialized Knowledge and/or Skills Required:

- Experience 3D modeling software, i.e. SolidWorks and/or Creo, preferable SolidWorks
- Geometric Dimensioning and Tolerance (GD&T) practices

Nice to Have

- Designing for rapid prototyping methods
- Experience in polymer material selection
- Ability to manage multiple tasks and projects
- Medical device or healthcare industry experience
- Experience creating technical, written content
- Demonstrated data analysis skills
- Ability to interpret technical drawings and creating Bill of Materials
- Demonstrated written and verbal communication skills
- Experience designing and developing electromechanical assemblies
- Strong interpersonal skills
- Strong understanding of mechanical engineering principles and methodologies
- Effective problem-solving skills
- High degree of initiative and self-motivation
- Experience solving ambiguous problems

- Experience with the design and manufacture of medical devices
- Experience in product design and development in an R&D environment

Project Management Experience

Ideal Traits:

- Passionate self-starter, poised to tackle any issue
- Strong interpersonal skills, with the ability to relate to people from all backgrounds
- Able to operate in a high visibility environment
- Comfortable in a simulated clinical environment
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