

## Mechanical Design Engineer

### Company:

**3<sup>rd</sup> Stone Design, Inc.** is a product design, strategy and development firm that provides consulting services to the medical device, renewable energy and consumer goods industries. Located in San Rafael, CA, we are a small and vibrant office with people who work hard, are passionate about our mission, and enjoy a good cup of coffee.

### Position Profile:

Under the direct supervision of the Director of Engineering, and the oversight of the CEO of 3rd Stone Design, the Mechanical Design Engineer will provide product design, mechanical engineering, testing, analysis and sustaining services.

The **Mechanical Design Engineer** is responsible for providing engineering deliverables that meet a range of technical, aesthetic, and performance requirements for a portfolio of projects. This individual will work with the engineering and product development team members to consistently deliver outstanding product design work by utilizing a range of engineering skills.

### Duties and Responsibilities:

The Mechanical Design Engineer will provide product design, engineering, document control, testing, analysis and sustaining services.

Product Design and Engineering includes: Concept generation, hand sketching, SolidWorks 3D CAD modeling of parts, assemblies and creation of drawings, supplier resourcing and technical research, testing and evaluation of prototypes and finished products, fabrication and assembly of models, prototypes, test fixtures and hardware.

Certain aspects of new product systems will require more in-depth analysis in the form of kinetic simulation, finite element analysis, and thermal modeling. These tasks will be completed to the best of your abilities and it is expected that a significant amount of learning may be required on the job.

Project Support may take the form of presentation material editing and creation in PowerPoint and other graphic software as well as printed material creation. Document Control and Sustaining Engineering will include maintenance of the PDM Pro vault, adherence to quality systems guidelines and protocols, and detailed revision and configuration management for products developed by the company.

### Particular Responsibilities Include:

- Supporting technical engineering efforts on specific projects
- Developing product concepts, layouts and detailed designs
- Participating in engineering reviews of projects
- Updating and maintaining the CAD and Quality systems used by 3<sup>rd</sup> Stone Design to assure quality and consistency across our engineered product lines
- Supporting quality systems approach to engineering both for medical devices as well as high volume consumer products

- Actively contributing to the entire engineering team in terms of knowledge growth, process improvement and doing great work.

**Position Requirements / Qualifications:**

- Bachelor's degree in a related Engineering field. Specific study in Mechanical Design
- 3-5 years' experience in a design engineering role (experience as the lead engineer on a project is a plus!)
- Excellent communication skills in English (spoken, written and sketched)
- Experience working with on and off-shore suppliers - across cultures and time zones
- Detailed mechanical conceptualization, analysis and visualization skills
- Expertise with SolidWorks CAD, and knowledge and comfort with PDM Professional
- Experience with PLM Software (Arena Solutions)
- Working knowledge of high and low volume manufacturing processes
- Ability to perform stress/strain analysis and tolerance analysis
- Experience taking at least one product development process from conceptual design through to manufacturing ramp up
- Experience and working knowledge of regulated processes, either medical device or commercial electrical
- Creative thinking, sound judgment, organization, diplomacy, thoroughness, professionalism, humor and an uncanny desire to do great work.
- Legal authorization to work in the U.S. is required.
- Ability to DEAL

**Hours:** Full Time Position,

**Benefits:** 3 Weeks Paid Time Off + Major Holidays

Health Insurance Plan including High Deductible Health Insurance, Flexible Spending Account for medical and other qualified expenses, 401(k) retirement plan participation with company match.

Friendly Co-Workers, Meaningful Work, and a job that you'll want to come to!