

## Product Design Engineer

### Position Profile:

The Product Design Engineer provides smart product design, mechanical engineering, testing, analysis and project support services.

The **Product Design Engineer** delivers a range of technical, aesthetic, and performance requirements for a portfolio of projects. This individual will work with the CEO and product development team members to consistently deliver outstanding product design work by utilizing a range of engineering skills.

**3<sup>rd</sup> Stone Design** is a product design, strategy and development firm that provides consulting services to the medical device, renewable energy and consumer goods industries. We also develop, contract the manufacture of, and sell our own lines of products for the worldwide market, including the BiliDX point of care bilirubinometer, Hadli Device Monitoring System, Pumani bubble CPAP, and Stone Cold Systems, an actively cooled, vaccine transport device. Located in Sausalito, 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.

### Duties and Responsibilities:

Under the supervision of the CEO of 3rd Stone Design, the Product Design Engineer will provide product design, mechanical engineering, testing, analysis and project support services.

Product Design and Engineering includes: Concept generation, hand sketching, specification development and tracking, SolidWorks 3D CAD modeling of parts, assemblies and creation of drawings, design control, supplier resourcing and technical research, testing and evaluation of prototypes and finished products, fabrication and assembly of models, prototypes 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. Tasks will be completed to the best of your abilities, and it is expected that a significant amount of learning will happen on the job.

Project Support may take the form of presentation material editing, printed material creation, editing and categorization, and general project organization support including project archiving and taking meeting minutes. Documents and technical files are stored in Arena PLM. There will also be material management in the form of preparing samples for shipment, ordering goods, receiving components, and generally managing physical items used in prototype and short-run production efforts. For certain projects, more in-depth written reporting may be required; this could include lab test result write-ups or technical sections of grant applications or reporting.

### Particular Responsibilities Include:

- Leading the technical engineering effort on a given project
- Leading the team to the best solutions via a thorough process
- Developing product concepts, layouts and detailed designs
- Conducting engineering reviews of projects

## *Job Description*

- Proactively managing the engineering resources and needs of a project
- Client and Partner management: setting, managing and exceeding expectations
- Budget and schedule planning of the engineering portion of projects
- Actively contributing to the engineering team in knowledge growth and process improvement

## **Position Requirements / Qualifications:**

- Bachelor's degree in a related Engineering field. Specific study in Product Design. Advanced degrees considered an advantage if the work was applied.
- 3-8 years' experience in a design engineering role, with experience as a lead engineer
- Excellent communication skills (spoken, written and sketched)
- Experience working with offshore suppliers: across cultures, oceans, and time zones
- Exceptional mechanical conceptualization, analysis and visualization skills
- Excellent skills in SolidWorks CAD, with knowledge and sensitivity to complex surfacing or mechanism development
- Experience guiding the work of others and directly supporting clients
- Working knowledge of high and low volume manufacturing processes
- Ability to perform stress/strain analysis and tolerance analysis
- Ideally experience working closely with industrial and user interaction designers at a product development firm
- Experience taking at least one product development process from conceptual design through to manufacturing ramp up
- Experience leading a project team and managing schedules and budgets
- Experience and working knowledge of medical device regulatory processes
- Exceptional mechanical conceptualization, analysis and visualization skills
- Creative thinking, sound judgment, organization, diplomacy, thoroughness, professionalism, humor and an uncanny desire to do great work.
- Ability to DEAL

**Hours:** Full Time Position

**Benefits:** 3 Weeks Paid Time Off + 8 Major Holidays

Health and Disability Insurance

Health Insurance Reimbursement Account - FSA

401(k) Retirement Plan and Employer Matching

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