

**Business offices:**

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MECHANICAL MANUFACTURING ENGINEER: Industrial Mixing

Education level:	Bachelor's or Masters' Degree in Mechanical Engineering or related discipline
Relevant Work Experience:	At least 6 years experience in product design and manufacturing preferably in Industrial Equipment, Capital Equipment, or Consumer Goods.
Reports To:	CEO of PAX Mixer, Inc
Job Status:	Full Time
Location:	Marin County, CA
Start Date:	December 1, 2008

Job Summary:

PAX Mixer Inc. (PMI) is a well-funded start-up company developing novel industrial mixing technologies for a variety of industries including water and waste water processing, biofuels, and industrial mixing. PMI is a spin-out from parent company PAX Scientific – a pioneer in the field of biomimetic industrial design – applying nature's best designs for efficient fluid movement to man-made systems. PMI is located in San Rafael, California, in the San Francisco Bay Area.

PMI is seeking an energetic and experienced Mechanical Manufacturing Engineer to support both its product development and production line in the area of rotary and static industrial mixing and water treatment equipment. Because of the small size of the Company the individual will have a broad range of responsibilities with unusual opportunity for rapid growth.

Essential Functions:

- Act as “Manufacturing Engineer” supporting current production line of Mixers. Duties include:
 - Provide Sustaining Technical Support for Manufacturing.
 - Designing and Author Quality Control Documents including Work Instructions, Sampling Plans, Part Specifications, Piece Part and Assembly Drawings, First Article Procedures, Incoming Inspection Procedures.
 - Critique current and future products and components for Daft including Design for Assembly, Cost, Quality, Inspection. Engineer tolerance studies and modify drawings accordingly.

- Design Go/No-Go Gauges and Similar Instrumentation to facilitate Incoming Inspection and Assembly Process.
- Conduct Vendor Visits/Audits, spearhead vendor selection process.
- Write Deviations, Engineering Change Orders, and Manufacturing Procedures to support Development and Sustaining.
- Act as “Catalyst” for Quality both on the floor, and within Manufacturing Engineering.
- Design Machine Elements such as bearings, mechanisms, vibration isolation systems, and systems associated with the Mixer Product Line.
- Support the development of industrial mixing solutions and products with PAX’s innovative biomimicry-based design process optimizing best in class static and rotating industrial mixing technologies.
- Work with engineering/scientific staff in the design and fabrication of experimental apparatus.
- Specify and guide the sourcing of components (e.g. motors, gear boxes, etc.) and knowledgably differentiate suppliers on the basis of quality, reliability and overall value.
- Assist Product Development by contributing with innovative solutions to simple and complex problems.

QUALIFICATIONS:

- A positive, can-do attitude and eagerness to work in a dynamic and multi-talented team are essential.
- Master’s degree (or Undergraduate degree with sufficient industry experience) in Mechanical Engineering, Chemical Engineering or related discipline.
- Proven track record in equipment or machine design with subsequent product-launch/manufacturing support background.
- Familiarity with the process of new product introduction in the field of industrial equipment.
- Familiarity with a large variety of manufacturing processes and design related to these processes.
- Experienced user of CAD software for design. (SolidWorks preferable.)
- Excellent verbal and written communication skills.
- Excellent technical, conceptual, and analytical skills.
- “Hands-On” approach to Engineering appreciated.
- Ability to work independently and conscientiously must be demonstrated.
- Demonstrated ability to accomplish goals.

- Deeply offended by waste, inefficiency and complacency
- Strongly motivated to develop technologies with improved energy efficiency, superior performance and outstanding elegance of design

Candidates who make the short list will be asked to demonstrate their product development experience through examples and portfolios along with references. Qualified applicants please submit cover letter and résumé to jobs@paxscientific.com, and type “Mechanical Manufacturing Engineer - Mixing” in the subject line. PAX Scientific is an equal opportunity employer.

In addition to a resume please include in your cover letter or e-mail answers to the following questions:

1. Please describe your experience developing new industrial or commercial products and the specific projects you have had a hand in bringing into existence.
2. Please tell us your experience working in a small company environment.
3. Please tell us anything else you think is relevant to this opportunity that has not already been discussed in your resume or the answers to the questions above.