

JOB DESCRIPTION

Position: Staff Engineer (NPD)

Reports to: Director, Engineering

Mission:

The Engineer will bring electro-mechanical, hardware, and software design skills to support R&D activities related to precision pump and valve products. (S)/he must have strong engineering design capability in monitoring environmental characteristics of precision electro-mechanical devices, with an understanding of design for manufacturing. This candidate must have a strong desire in bringing new products to market and supporting existing product lines to support a rapidly changing environment. This person must ensure compliance with Bio-Chem quality policies, procedures, and practices through appropriate communication, training, and education of sound quality assurance principles.

Key Responsibilities and Accountabilities

- Support electro-mechanical, hardware, and software development efforts on several next generation BCF products and product upgrades, including systems monitoring
- Provide hands on support to all product engineering efforts as required
- Interact with engineering, operations and quality to define, document, perform, analyze and interpret tests for components, products and systems
- Collect, interpret, and clarify customer needs, develop / modify designs to meet customer provided requirements
- Collaborate with internal teams to generate effective test methods for verification and validation of new products or product changes that can be transitioned to Operations and Quality
- Assist with internal quality control standards and the maintenance of reliability programs

Qualifications:

- Minimum Bachelor's in Mechanical Engineering, Electrical Engineering or Mechatronics with 8 years minimum of industry experience.
- Ability to work with technical teams across the organization
- Strong design skills and familiarity with parametric modelling such as SOLIDWORKS or Pro-E., with capability to perform tolerance analysis of complex machined, molded and assembled devices
- Experience programming in C++, Javascript, and/or Python
- Familiarity with basic circuit design, work with Arduino/Raspberry Pi/etc for monitoring systems
- Ability to assemble prototypes and bench top test equipment
- Minitab and LabVIEW experience is a plus
- Proficient oral and written skills to effectively and clearly communicate concepts, ideas and knowledge to other individuals and team
- Six Sigma background in Design Methodologies is a plus.
- Experience in mechanical test systems such as Instron for measuring forces, speed, and pressure is a plus

- Familiar with North American and European regulatory bodies; FDA, ISO, GMP, UL; CSA; TUV and industry standards; IEC; NEC; ANSI;, experience in medical device, automotive and/or Aerospace is highly desirable

Supervisory Responsibility

This position has no supervisory responsibilities.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is regularly required to sit or stand.

Position Type/Expected Hours of Work

This is a full time position. Days and hours of work are Monday through Friday 8:00 am – 5:00 pm or as determined by project needs.

Travel

This position may require up to 15% travel.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.