



Job Title: Senior Mechanical Engineer
Job Code: SME20-01
Reports to: VP of Engineering

Overview:

RedShift BioAnalytics is seeking a Senior Mechanical Engineer to support the development of analytical instrumentation for the characterization of biologic drugs. The position is both exciting and challenging, requiring engineering skills in robotics, microfluidics, thermal management, and opto-mechanics in addition to instrumentation design.

Summary:

The Senior Mechanical Engineer will join our engineering group to develop new life science instrumentation. The position entails developing and supporting automated systems that precisely control the handling and flow of biologic samples. Mechanical design skills should include prior experience with structural components, opto-mechanical design, robotics, and fluidic systems both for sample handling and cooling systems. More broadly, you will work across the organization at every stage of the product development cycle including supporting our manufacturing team with RedShift's recently introduced product. Note that previous experience in life science is not required but desired. The position is based in Burlington, MA, USA.

Requirements / Education:

Minimum Qualifications:

- B.S. in Mechanical Engineering with experience in fluidics, robotics, or opto-mechanics.
- High level of proficiency in SOLIDWORKS required.
- Experience in the development and successful release of products to manufacturing.
- Geometric dimensioning and tolerance experience.
- Familiarity with fluid control components and system architecture.
- Skilled in selecting components with regard to performance and chemical compatibility.
- Knowledge of machining and fabrication techniques for prototypes and production.
- Emphasis on design for manufacturability and serviceability with focus on cost containment.
- Experience interfacing directly with outside vendors and/or design firms.
- Strong hands-on mechanical and bench skills, with ability to perform detail-oriented work including assembly, test, troubleshooting and product verification testing.
- Adept at planning, prioritizing, multi-tasking, organizing and following through, while remaining highly energetic and focused.
- Extremely motivated and willing to work in a fast-paced environment, with a hard-working multi-disciplinary team.
- Ability to support our manufacturing team in generating work instructions and RCCA of manufacturing and product issues.

- Excellent oral and written communication skills including writing and executing protocols and generating reports, presenting test results and design reviews.
- Willingness to travel up to 10%.

*Additional Preferred Qualifications:

- Experience in industrial design for instruments or medical devices
- Experience with any of the following: finite element analysis, thermal analysis, fluid flow in microfluidic systems and CFD.
- Opto-mechanical design of laser-based systems.
- Experience in life science instrumentation, specifically, biotechnology or medical device development.
- People leadership and project leadership experience under multiple projects to achieve key deliverables and timelines.
- Managing Solidworks PDM or similar vault.

About RedShift BioAnalytics:

RedShift BioAnalytics is developing powerful new analytical tools for the biopharmaceutical markets. Our measurement solutions combine tunable lasers, microfluidics, automation and analytical technologies to achieve revolutionary improvements in performance and analytical capabilities. At RedShift, we provide customers with solutions that accelerate product discovery, development and manufacturing while enabling dramatic improvements in performance, efficiency and cost.

We have developed major partnerships with industry leaders, attracted top talent to our executive and advisory teams, and received strategic and venture funding to support our product introductions and continue to build our team. Our team members are innovators who push beyond the status quo to create one of the most promising technology start-ups in the Boston area.

This position is open for immediate hire. The company provides very competitive salaries as well as a full benefit plan including medical, dental and 401(k) savings.

To apply, please send a cover letter and resume referencing the job title to:
Careers@Redshiftbio.com

WE ARE AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER. RedShift BioAnalytics affords equal employment opportunity to all qualified persons regardless of race, color, religious creed, national origin, age, military status, sexual orientation, disability, genetic information, gender identity, gender expression or gender unless based upon a bona fide occupational qualification. Please view Equal Employment Opportunity Posters provided by OFCCP [here](#).