



Job Title: Mechanical Fluidic Engineer
Job Code: RS.03.MFE
Reports to: VP of Engineering (Richard Sharp)

Overview:

A minimum of 5 years' experience beyond school is required for this position and applicants should have demonstrated experience with automated systems that control the flow of system fluids and samples in prototype or other automated instrumentation.

Summary:

The Fluidic Mechanical Engineer will join our engineering group to work closely with product development, from the development of instrument requirements through testing and qualification of the Company's life science analytical instruments. The candidate will apply working knowledge of design and engineering principles to develop innovative solutions for our measurement solution product lines. Applicants will specialize on the automated systems that precisely control the flow of system fluids and samples for our instruments. More broadly, you will work across the organization at every stage of the product development cycle. Note that previous experience in life science is not required, but will be an asset. The position is based in Burlington, MA, USA.

Requirements / Education:

*Minimum Qualifications (must have)

- B.S. in Mechanical Engineering or a closely related discipline with specialization in fluids.
- M.S. Degree or Ph.D. with industry experience highly preferred.
- At least 5 years of commercial experience in developing fluid management systems.
- Elevated level of proficiency in SOLIDWORKS.
- Experience in finite element and thermal analysis required and CFD preferred.
- Geometric dimensioning and tolerance experience with tolerance stack-up analysis.
- Demonstrated strong knowledge and experience in fluid mechanics in both macro- and micro-scale.
- Demonstrated strong hands-on mechanical aptitude.
- Familiarity with fluid control components and system architecture, ideally for both liquid and pneumatic.
- Experience interfacing directly with outside vendors and/or design firms.
- Experience and leadership in working to solve problems in a multidisciplinary environment with Engineers and Scientists.
- Strong lab skills, with ability to perform and document detail-oriented work with a high degree of accuracy.
- Excellent oral and written communication skills.
- Knowledge of machining and advanced fabrication techniques.
- Experience in developing architectures for new fluidic subsystems.
- Selecting components with regard to performance and chemical compatibility.
- Managing and participating in assembly, testing, and troubleshooting.
- Performing formal product verification, including writing and executing protocols.
- Analyzing data, preparation of reports, and presenting results at cross functional meetings.

- Defining engineering specifications based on customer needs, product requirements, risks and design constraints.
- Emphasis on design for Manufacturability and Serviceability with focus on cost containment.
- Managing the technical deliverables of key suppliers.
- Willingness to travel up to 5% (global).

*Preferred Qualifications

- Modeling of fluid flow in liquid systems.
- Extremely motivated and willing to work in a fast-paced environment, with a hard-working multi-disciplinary team.
- Resourceful, flexible and willing to work hands-on in developing novel technologies and executing program deliverables.
- Strong team player.
- Adept at planning, prioritizing, multi-tasking, organizing and following through, while remaining highly energetic and focused.
- Experience in biotechnology or medical device development.
- People leadership and project leadership experience under multiple projects to achieve key deliverables and timelines.

About RedShift BioAnalytics:

RedShift BioAnalytics is developing powerful new analytical tools for the R&D, life science and biopharmaceutical markets. Our measurement solutions combine tunable lasers, microfluidics, 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

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