



**Job Title:** Manufacturing Engineer  
**Job Code:** MFG19-02  
**Reports to:** Manufacturing Manager

**Overview:**

A minimum of 5 years' experience beyond school is required for this position and applicants should have demonstrated experience with automated systems that consist of multiple electro-mechanical sub-assemblies.

**Summary:**

The Manufacturing Engineer will join our Operations group to work closely with product sustainability/manufacturability, from the development of manufacturing design improvements and fixtures through improving the testing and qualification of the Company's life science analytical instruments. The candidate will apply working knowledge of mechanical engineering principles to develop innovative solutions as we optimize our current products and transition new products into manufacturing. Of equal importance is prior hands on experience in building instrumentation products, and the ability to thoroughly understand the product design and the required manufacturing processes and procedure to ship quality product. Note that previous experience in life science is not required but is strongly preferred. The position is based in Burlington, MA, USA.

**Requirements / Education:**

\*Minimum Qualifications (must have)

- B.S. in Mechanical Engineering or a closely related discipline.
- At least 5 years of commercial experience in developing life science equipment.
- Very level of proficiency in SOLIDWORKS required for performing product design changes and as a team member working alongside engineering during NPI.
- Geometric dimensioning and tolerance experience with tolerance stack-up analysis.
- Knowledge of various materials used in production design (e.g. machined components, plastics and sheet metal) in order to make proper design decisions.
- Knowledge of various manufacturing processes (injection molding, machining, sheet metal) so as to develop designs capable of being fabricated utilizing these processes.
- Experience interfacing directly with outside vendors and/or design firms.
- Strong hands-on mechanical and bench skills, with ability to perform and document detail-oriented work
- Prior experience using production control process and documentation systems with a firm recognition of their importance in producing high quality products.
- Managing and participating in assembly, testing, and troubleshooting.

- Performing formal product verification, including writing and executing protocols and generating reports.
- Ability to design for manufacturability and serviceability.
- 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
- Excellent oral and written communication skills with high proficiency in Excel and Office products.
- Willingness to travel for contract manufacturing support (5-10%).

**\*Preferred Qualifications**

- Experience in life science medical or instrumentation products combining fluidic, opto-mechanical, gas handling, and motion control core technologies.
- Ability to troubleshoot and make repairs on electronic assemblies and CCAs.
- Experience in designing and executing product reliability testing at the subassembly and system level.
- Resourceful, flexible and willing to work hands-on in developing novel technologies and executing program deliverables.

**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](mailto:Careers@Redshiftbio.com)

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occupational qualification. Please view Equal Employment Opportunity Posters provided by OFCCP [here](#).