



Job Title: Sr. Consumables Engineer

Location: Boston, MA

Company: BLASTID, Inc.

About Us: BLASTID is developing innovative diagnostic solutions to tackle the world's most pressing healthcare threats. By pushing the boundaries of microfluidics, optics, and machine learning, BLASTID has created advanced technologies capable of rapidly identifying and analyzing individual cells, including drug-resistant pathogens. These breakthroughs are at the core of BLASTID's strategy to address the growing crisis of antimicrobial resistance. With its unique platform and commitment to innovation, BLASTID is poised to set a new global standard in diagnostic speed, accuracy, and patient impact. Our multidisciplinary approach ensures that these technologies remain adaptable and effective as healthcare needs continue to evolve.

Position Overview: The BLASTID team is seeking a highly skilled and experienced **Senior Consumables Engineer** to lead the design, development, and optimization of microfluidic systems for our diagnostic devices. Reporting to the Head of Product Development, the ideal candidate will have a strong background in microfluidics, particularly in medical device or regulated applications, and will work closely with our engineering leader and cross-functional teams to bring innovative solutions to market.

Key Responsibilities:

- Lead the design and development of microfluidic systems for *in vitro* diagnostics.
- Collaborate with cross-functional teams, including biology, chemistry, and regulatory affairs, to ensure seamless integration of microfluidic components.
- Conduct simulations, prototyping, and testing of microfluidic devices to optimize performance and reliability.
- Lead collaborations with manufacturing partners to develop and implement protocols for the fabrication and assembly of microfluidic devices.
- Support compliance with regulatory standards and guidelines for medical devices.
- Troubleshoot and resolve technical issues related to microfluidic systems.
- Mentor and guide junior engineers and technicians in microfluidics technology and best practices.

Qualifications:

- B.S. in Mechanical Engineering, Material Science, or a related field required with 5+ years professional experience preferred. Graduate degree is preferred.

BLASTID is an equal opportunity employer that is committed to diversity and inclusion in the workplace. We prohibit discrimination and harassment of any kind based on race, color, sex, age, religion, sexual orientation, gender identity, national origin, disability, genetic information, pregnancy, or any other protected characteristic as outlined by applicable laws.



- Minimum of 5 years of experience designing microfluidics systems, preferably in the medical device or regulated industry.
- Proficient with CAD software such as AutoCAD and SolidWorks.
- Strong knowledge of microfabrication techniques, materials, and processes.
- Proven track record of hands-on microfluidic device fabrication leading to scalable manufacturability and assembly processes.
- Excellent problem-solving skills and attention to detail.
- Strong communication and teamwork abilities.

Preferred Skills:

- Experience with point-of-care diagnostic devices.
- Knowledge of fluid dynamics and microfluidic modeling.
- Experience with finite element analysis tools for microfluidic design (e.g., COMSOL Multiphysics, ANSYS).
- Experience establishing and managing product data management for CAD using packages from Dassault Systèmes or Autodesk.
- Experience translating bench assays into microfluidics systems for diagnostics.
- Familiarity with regulatory requirements for medical devices (e.g., ISO 13485, ISO 14971).

Why Join Us:

- Be part of a pioneering team working on groundbreaking technology in the diagnostics field.
- Opportunity to make a significant impact in a fast-growing startup environment.
- Collaborative and innovative work culture.
- Competitive salary and benefits package.
- Medical, dental, and vision coverage options
- STD, LTD, Life Insurance Plans
- 401(k) plan
- Flexible time off

Excited to make an impact? We'd love to hear from you! Send your cover letter and resume to careers@blastid.life to join our team.

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