



Manufacturing Engineering Manager

Pay range: \$77,000-\$152,000/yr. DOE

****This position is located in Syracuse, NY.**

At Bluefors, we are proud to design and manufacture world-class cryogenic solutions that enable breakthrough discoveries. From our Syracuse, NY facility, home to Cryomech product lines, we develop and build cryogenic systems that power advances in quantum technology, scientific research, and other cutting-edge industries.

Founded in Finland in 2008, Bluefors quickly became the global leader in ultra-low temperature systems. With the addition of Cryomech, Syracuse-based pioneer since 1963, our combined expertise allows us to deliver reliable, high-performance products that scientists, innovators, and industries depend on every day.

Our team of 600+ professionals from over 50 nationalities is united by curiosity, craftsmanship, and a share mission: to help our customers go further. Whether building precision cryocoolers, engineering complete measurement systems, or supporting our products in the field, we focus on quality, collaboration and progress.

Working at Bluefors means contributing to technology that has real impact worldwide. In Syracuse, our employees are the heart of producing the cryogenic systems that enable tomorrow's discoveries - while building rewarding careers in engineering, manufacturing, quality, finance, sales, service and beyond.

Position Summary

The Manufacturing Engineering Manager leads a team of Manufacturing Engineers to develop, sustain, and improve production processes that are efficient, cost-effective, and high quality. This role provides technical leadership, supports new product introductions, and drives continuous improvement initiatives. Partnering with Operations, Quality, Procurement, and R&D, the Manager ensures manufacturing performance, resolves production challenges, and advances process innovation.

Essential Duties and Responsibilities :

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Supervise, mentor, and develop a team of Manufacturing Engineers to build skills, engagement, and professional growth.
 - Manage performance, set priorities, and ensure consistency across engineering activities.
 - Provide day-to-day technical support to maintain productivity, product quality, and compliance with safety standards.
 - Participate in Material Review Board (MRB) activities and provide technical dispositions for non-conformances.
 - Collaborate with Production Planning to ensure delivery schedules, capacity requirements, and manufacturing readiness are met.
 - Lead continuous improvement initiatives, including Lean, 5S, process optimization, and equipment innovation.
 - Improve manufacturing efficiency through workflow design, facility layout planning, and equipment utilization.
 - Identify root causes and implement corrective/preventive actions for manufacturing issues.
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- Research and integrate new technologies, tooling, and methods to support evolving production needs.
- Partner with Procurement and Quality to support supplier selection, qualification, and process validation.
- Work with Engineering, Sales, and Business Development to evaluate feasibility, cost, and manufacturability of new designs and proposals.
- Maintain and update manufacturing documentation, including work instructions, routers, and process controls.
- Establish, track, and report on key metrics for manufacturing engineering deliverables to support planning and decision-making.
- Perform additional responsibilities as assigned to support organizational goals.

Qualifications and Education Requirements

Bachelor's degree in mechanical, manufacturing, industrial engineering or related field; minimum of three years' experience in manufacturing engineering with at least one year in a leadership or supervisory role; or equivalent combination of education and experience. Master's degree in mechanical, manufacturing, or industrial engineering is preferred.

Demonstrated experience with process validation, workflow optimization, cost reduction, and continuous improvement methodologies.

Employee Benefits

Bluefors offers a generous benefits package including health, dental, vision, 401K, long and short-term disability, life, training, tuition reimbursement, and Paid Time Off (PTO).

This role does not offer sponsorship for work authorization.

Bluefors Cryocooler Technologies, Inc. is an Equal Opportunity Employer. All qualified applicants will receive consideration regardless of disability status, veteran status, or any other New York State or federally protected characteristic.
