

Department: Manufacturing

Managed By: Operations Manager

Job Title: Senior Manufacturing Engineer

Acme Aerospace, a business unit of Avionic Instruments, designs, manufactures, and services batteries and energy storage electronics that power mission critical operations for commercial, military and general aviation. Acme's advanced power systems deliver ultra-reliable start-up, back-up and emergency power for the world's most demanding customers, in the harshest environments and under the most hazardous conditions. Avionic Instruments is a wholly owned subsidiary of TransDigm.

Job Summary:

The Senior Manufacturing Engineer leads complex process development and continuous improvement initiatives across Acme's electronics and battery product lines. This role works closely with production operators to optimize and validate manufacturing process improvements that drive enhanced product quality, manufacturing safety and productivity savings. It collaborates cross-functionally with engineering, quality, and the broader operations team to implement robust solutions and support new product introductions. This is a highly visible position with opportunities for significant growth and career advancement within Acme and across TransDigm. The Senior Manufacturing Engineer also provides technical leadership, mentoring, and guidance to ensure best practices in manufacturing excellence.

Essential Responsibilities:

- Coordinate with manufacturing supervisors to design, develop, and continuously improve manufacturing processes to ensure efficiency, repeatability, and compliance with AS9100 quality standards.
- Design and implement production tooling, jigs, and fixtures to support precision assembly and machining operations.
- Provide daily technical support to manufacturing operations, troubleshooting issues related to equipment, process variation, or nonconforming parts.
- Collaborates with Quality, Production and Supply Chain teams to lead initiatives that reduce waste, improve workflow, and increase production throughput using Lean and Six Sigma methodologies.
- Analyze manufacturing costs, identify cost drivers, and recommend process improvements or automation to enhance efficiency.
- Lead Root-Cause-Corrective Action investigations and implement RCCAs as needed.
- Act as technical leader in improving documentation of current and new manufacturing processes.
- Lead the transition of new products from engineering development to manufacturing release including process validation and tooling readiness.
- Initiate engineering change requests and implement engineering change orders.
- Partner with operations leadership to develop long-term manufacturing strategies aligned with business goals, capacity requirements, and technology roadmaps.

Essential Responsibilities (cont.):

- Mentor junior engineers and technicians, promoting technical excellence, knowledge transfer, and professional development across the operations team.
- Champion a data-driven culture by utilizing process data, statistical analysis, and optimize digital manufacturing tools to identify trends, optimize processes, and justify capital investments.

Qualifications:

- Bachelor of Science degree in Mechanical, Electrical, Industrial, Aerospace or Manufacturing Engineering
- 5-7 years of progressive manufacturing engineering experience in the aerospace, defense, or other highly regulated industry.
- Experience with new product introduction
- Experience developing process routings, work instructions, and PFMEAs.
- Excellent communication and interpersonal skills with the ability to communicate with team members at all levels of the organization

Preferred Qualifications:

- Master's degree in Mechanical, Electrical, Industrial, Aerospace or Manufacturing Engineering
- Experience in an Operations/Manufacturing leadership program within an S&P500 organization
- Certifications in Lean Six Sigma methodology
- Prior aerospace manufacturing experience
- Experience with robotics and process automation
- Prior CAD design experience

Physical Demands:

Must be able to support standard business hours, Monday through Friday. Must also be able to support overtime on weekdays or weekends as required to support business needs. Must be able to lift and/or move up to 25 lbs. and be able to sit and/or stand for long periods of time. The physical demands described here represent those that an employee must meet to perform the essential functions of this job successfully. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

International Trade Compliance Requirements:

Due to the potential exposure to ITAR-controlled data and export control regulations, the applicant in this role must be a qualified U.S. person designated under INA, 8 U.S.C. 1324b(a)(3) or be eligible for any required authorizations from the U.S. Government.

Work Environment:

While performing the duties of this job, the employee is exposed to weather conditions prevalent at the time and an air-conditioned and heated office. The noise level is occasionally high.

Disclaimer:

The above information on this description has been designed to indicate employees' general nature and level of work performance within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities, and qualifications required of employees assigned to this job.

Acme Aerospace is an Equal Opportunity Employer and encourages the application of female, minority, disabled, and veteran candidates. Candidates must be able to perform essential responsibilities with or without reasonable accommodations. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin. Interested candidates should submit their resumes and salary requirements.