



Rantec Power Systems Inc.
Los Osos, California

JOB DESCRIPTION

Title: Manufacturing Engineer Sr
Department: Process & MFG Engineering
Reports To: Director of Manufacturing

Date: August 2024
FLSA Status: Exempt

Scope: The Manufacturing Engineer is the owner of product manufacturability. They will develop and monitor manufacturing processes and tools to ensure products are built in an efficient, timely, and cost-effective manner, while maintaining quality and safety.

Essential Duties and Responsibilities including, but are not limited to the following:

- Develop and maintain expertise in “Best Practice” Electronics Assembly and Systems Integration.
- Partner with Design Engineering from product inception to ensure Design for Manufacturability (DFM) guidelines are followed.
- Review and approve all new product engineering documents as the Operations DFM Gatekeeper. Manage NPI related ECO implementations as needed.
- Ensure assigned products are successfully transferred from design to manufacturing and supply chain.
- Provide feedback loop to design team on product-related issues and help create internal DFM checklists to capture lessons learned from product rollout.
- Identify, design, procure, and validate all fixtures, tooling, and equipment needed to meet business plan.
- Using Lean concepts, design and document manufacturing methods that meet production cost targets.
- Photo-document production processes and create detailed Assembly Instructions.
- Maintain and improve production documentation and tooling, as required.
- Manage tasks and suppliers to meet schedule demands.
- Lead Production Readiness Reviews with the Integrated Product Teams.
- Resolve production problems quickly and effectively through responsive engineering support.
- Monitor production processes for efficiency, throughput, and safety improvements.
- Monitor defect trends and evaluate scrap events for process improvements and error-proofing.
- Participate in Materials Review Board to disposition non-conforming material and write rework instructions.
- Participate in all stop-light meetings and RCCA Analyses as a key contributor.
- Provide recommendations for product labor standard updates.
- Provide inputs to program Risk Register for production lead times, including anything that could affect production: equipment issues, staffing issues, facility issues, etc.
- Support all aspects of electronics assembly, including SMT and through-hole assembly, convection reflow, selective and wave soldering, hardware installation, cleaning, staking, conformal coat, and encapsulation.
- Pursue Professional Development opportunities to maintain and improve engineering competence.
- Ability to work flexible hours and/or different shifts, if needed.
- Ability to work in a safe professional manner adhering to all regulatory requirements including OSHA, EPA, State and Federal Regulations.
- As the Company's success relies on the productivity of our team and adherence to customer product schedules, an essential function of this position is the ability to arrive to work on-time, and work each day, as scheduled.

- Perform other duties as assigned.

Qualification Requirements:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

This position requires access to our export-controlled commodities, technical data, technology and services. These items are restricted under the International Traffic in Arms Regulations (ITAR) to U.S. Citizens, Lawful Permanent Residents of the U.S. and properly licensed foreign persons. Therefore, employment is contingent on compliance with ITAR regulations and successfully obtaining and maintaining the necessary export authorization license from the U.S. Department of Commerce's Bureau of Industry and Security, U.S. Department of State's Office of Defense Trade Controls, or other applicable government agency.

Education and Experience

- BS degree in Engineering; MS degree in a related Engineering discipline preferred.
- 7 years' experience working in a manufacturing environment preferred.
- Sound reasoning skills (critical thinking) in risk assessment and regarding acceptance/rejection of material.
- Knowledge in electrical and mechanical assembly and inspection requirements including current industry standards.
- CAD/CAM/GD&T
- 6S and Lean Manufacturing
- Statistical Process Control methodology
- Proficient in Microsoft Office
- Ability to communicate effectively with all levels of employees as well as outside sources.

Physical Requirements

The physical demands described here are representative of those to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Work within a factory environment, including moderate noise and chemical odors.
- Able to frequently move between sitting, standing, and walking.
- Consistently lifting and handling up to 10 pounds and periodically lifting up to 25 pounds.
- Specific vision abilities required by this job include close vision, distance vision, peripheral vision, depth perception and the ability to focus, with correction, if needed, to perform hand soldering and wiring of assemblies.

Employee signature below constitutes the employees understanding of the requirements, essential functions, and duties of the position.

EMPLOYEE NAME (PRINTED): _____

EMPLOYEE SIGNATURE: _____ **DATE:** _____

Rantec is proud to be an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or status as a protected veteran. Rantec will consider reasonable accommodation to its policies for employees and applicants due to sincerely held religious belief.