



Senior Process Engineer

Company:	SMTc Corporation	Location:	San Jose, CA
Department:	Engineering/Operations	Reports To:	Director of Manufacturing

Company Overview:

SMTc Corporation is the company behind the manufacture, performance and intelligence sophisticated electronic devices all over the world. We are a global Electronics Manufacturing Services (EMS) provider with more than two decades of experience working in partnership with Original Equipment Manufacturers (OEMs) in computer, industrial, communications, consumer and medical markets.

- **Our customers are the heart of our business.** We go to great lengths to build strong, synergistic relationships with our customers and business partners worldwide.
- **Our services, processes and capabilities deliver customer value.** SMTc provides global end-to-end solutions including design, new product introduction, manufacturing, supply chain management, and after-sales services for the whole product lifecycle.
- **Our people make it happen.** SMTc employees are responsive, results-oriented professionals with a track record for innovative, flexible solutions focused on customer needs. Our expertise in quality, technology and supply chain management offers customers a distinct competitive advantage.
- **Our business is global.** SMTc operates a global manufacturing network with operations in Canada, the United States, Mexico and a partnering relationship in China. For more information: www.smtc.com .

Position Overview:

The Senior Process Engineer performs engineering services in the contract manufacturing facility to produce printed circuit boards, components and final assemblies. The Senior Process Engineer applies engineering techniques to PCB products and processes through design and manufacturing to produce final products in accordance with customer specifications.

Key Responsibilities:

Product Development:

- Work with customer to define a standard approach to achieve the most efficient, cost effective process delivering high yielding, high quality product
- Perform Design for Manufacturability (DFM) feedback to customer to identify critical issues which impact quality, cost and throughput and ensure a successful product launch
- Develop new technologies, equipment, tools, processes and procedures to define and

improve manufacturing solutions

- Work with Quote department to validate labor quotes, establish process steps and standard quote model to provide pricing and non-reoccurring expenses (NRE)
- Work with the Document Control Analyst to provide direction for Product binders creation, process steps, instructions and customer specific requirements.
- Work with Component Engineering to validate AVL conformance to standard supply types, process requirements, compliancy to legislation (RoHS, REACH). Identify and feedback discrepancies to customer for resolution.
- Define process steps and routing and integrate SMTC quality inspection points and requirements.
- Design and implement stencil, reflow support fixtures, wave solder pallets, press-fit / swage fixtures, custom mechanical fixtures
- Develop reflow profile, SRT profile (as rework dictates), fixturing (as required), wave solder profile
- Responsible for process and equipment specific training and safety requirements.

Sustaining Engineering

- Responsible for maintenance and improvement of product quality, throughput and efficiency targets during product lifecycle.
- Evaluate Initiate & Implement customer's ECN or internal ECN & coordinate with team members to implement changes. Provide cost impact when applicable on tooling, parts and process variations
- Responsible for maintenance and improvement of cycle time, throughput targets and metrics, WIP flow and identification and resolution of capacity constraints.
- Maintain ESD compliance, equipment calibration when required and facility-wide work processes

Quality & Workmanship:

- Setup quality collection points, UCL and LCL for SPC, determine DPMO targets and identify additional inspection requirement to maintain high level of quality output and first pass yield
- Implementation of lean manufacturing, 5S and continuous improvement with focus on process control, issue resolution and quality improvement
- Define first article inspection requirements and product assembly information to support our Computer Integrated Manufacturing (CIM) systems and Real Time Factory Monitoring
- Determine Root Cause Analysis and perform corrective action through Corrective Action Reporting (CAR)
- Ensure adherence to IPC-A-610, 620 & ISO Procedures
- Monitor SMT efficiency and quality and ensure operators are following standard procedures

Reporting:

- Responsible for Metric report including SPC, Yield, Efficiency, Throughput
- Responsible for Maintenance of the Engineering Action Register for tracking of continuous improvement and weekly review of Rolled Yield reports "Top 5 detractor" and respective

corrective actions.

- Attend team & customer meetings on an agreed frequency

Required Skills & Knowledge

- Effective problem solving and organizational skills
- Effective communication skills (written and verbal)
- Strong interpersonal skills and the ability to work within a team environment
- Reflow Profiling, SMT Placement and General manufacturing knowledge
- Process and Equipment Documentation skills

Required Qualifications and Experience:

- Excellent computer skills (Lotus Notes, Office, AutoCAD, CAM350 an asset)
- Experience in IPC 610 and IPC 620 – Training Certification an asset
- Detail and quality oriented
- Strong leadership and training skills
- Minimum 10 years experience in electronic manufacturing environment
- Bachelor Degree in Mechanical, Electrical, Chemical or Industrial Engineering
- P.Eng designation preferred. Must be eligible for P.Eng.

Application Process:

All applicants interested in this career opportunity should send their cover letter and resume to sanjosehr@smtc.com by October 31, 2011, and quote the position title in the subject line.