Example of Principal Manufacturing Engineer Job Description

Our company is growing rapidly and is looking for a principal manufacturing engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

Responsibilities for principal manufacturing engineer

- Serve as the SLS Booster Thrust Vector Control (TVC) System Value Stream Element Team (VSET) leader
- Converting and Preparing Work Authorizing Documents to assemble and test the SLS Booster TVC system (heritage system form STS SRB) and lead other engineers in doing the same
- Nonconformance disposition preparation
- Converting and Preparing Work Authorizing Documents to assemble and test the SLS Booster hardware and assist other engineers in doing the same
- Work directly with OEMs creating, characterizing, implementing, and optimizing new processes including leading the design, procurement and qualification of manufacturing equipment
- Work directly with OEMs to address specification and quality issues
- Provide technical expertise for strategic sourcing projects, including evaluation of supplier capability, part qualification plan, specification review, product implementation and part transition to manufacturing
- Work in a high energy, cross functional design team environment which includes R&D, Regulatory, Quality, Manufacturing, and Supply Chain to ensure project objectives are met
- 25% domestic travel to OEM/contract manufacturer sites
- Provide manufacturing line support for product disposition and evaluation of tool health

- Strongly Preferred Certification and Experience with Defense, Military and Boeing Manufacturing Standards (BAC5001 – 14, BAC 5504, BAC 5739, BMS5-45, MIL-D-5541)
- Firsthand knowledge of the assembly of the STS Solid Rocket Booster and associated heritage requirements and procedures utilized at the Booster Fabrication Facility (formerly the ARF)
- Partner with marketing, R&D, RA, quality, and operations to develop process changes
- Monitor balloon component yield on a regular basis
- A bachelor's degree in a related engineering field such as mechanical, or manufacturing engineering is required
- Project and risk management