



Example of Principal Manufacturing Engineer Job Description

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Our company is looking for a principal manufacturing engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

Responsibilities for principal manufacturing engineer

- Optimize equipment utilization
- Provide technical leadership and individual contribution for engineering tasks to support laser manufacturing lines
- Leads and/or participates in project teams coordinating the efforts of engineers, technicians and other professionals of various disciplines/departments to design, develop, and continuously improve product, processes, equipment, fixture
- Performs work that involves conventional engineering practice but may include a variety of complex features such a conflicting design requirements, unsuitability of standard materials, and unconventional manufacturing processes
- Create, review or complete engineering documentation related to assigned engineering tasks, such as project plans, component and assembly drawings, BOMs, Master Validation plan/reports, pFMEAs, Work Instructions Assure that all MFG documentation complies with the quality system requirements, applicable government regulations and applicable national and international standards
- Communicating and coordinating activities with the US and Europe based technical teams and the foundry teams
- Facilitate and drive development priorities, ensuring timely coordination and execution of experiments

- Operation metrics, expedite, supply, forecast
- Troubleshoots for manufacturing processes assembly processes and equipment downtime issues, with the understanding of the cost impact

Qualifications for principal manufacturing engineer

- Experience with synthesis/manufacturing process and scale-up of chemicals such as zeolites, zirconium compounds, activated carbon, alumina, ion-exchange resins
- Strong working knowledge of the latest manufacturing engineering and related product design practices with a familiarity in Lean and Kaizen activities preferred
- Exceptional math and analytical skills to adequately analyze manufacturing needs from equipment selection to the detailed lean process flows required for high volume manufacturing
- Ability to perform Make vs
- Execution oriented, driven, and self-motivated
- At least 5 years of hands-on experience in wafer processing and process development, preferably in magnetic head manufacturing