



Example of Tool Design Engineer Job Description

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Our company is looking for a tool design engineer. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

Responsibilities for tool design engineer

- Participates in engineering activities to define product requirements, create designs, perform simulation testing and validation of final hardware components
- Performs mechanical component development and integration, while using Computer-Aided-Design concepts
- Manages large project tooling programs
- Performs value analysis during the product design phase while optimizing product development costs
- Occasional travel to our Saltillo, Mexico facility to provide engineering support for existing programs
- Chief technical resource and mechanical engineering leader on mid/high complexity Battery Pack and Charger New Product Development projects
- Provide clear engineering information to Project Leaders and the Global Engineering teams facilitating trade off decisions
- Establish test regimens for components and assemblies within area of scope in the project with minimal guidance
- Independently develop, write and analyze testing reports in internal laboratory
- Serve as a technical resource on areas of expertise and provide consultation / mentorship to others

Qualifications for tool design engineer

- Working knowledge of Lean Six Sigma tools, including Design of Experiments (DOE) and Statistical Process Control (SPC)
- Background in tooling machining techniques and manufacturing practices
- Understanding of welding techniques and processes
- Background in the mechanical, physical and ergonomic aspects as part of proper tool design
- Proficiency in SolidWorks or similar