



Example of Tool Design Engineer Job Description

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Our growing company is looking for a tool design engineer. To join our growing team, please review the list of responsibilities and qualifications.

Responsibilities for tool design engineer

- Interaction with manufacturing, Tool Prep, tool vendors, inspection and other department supervisors or managers to solve and correct existing and expected manufacturing problems
- Lead mid to high level manufacturing projects, providing direction, guidance and engineering expertise to team members
- Lead the internal development of special equipment and machinery and/or lead the development of special equipment and machinery with external partners
- Interface with vendors on procuring materials, services, and equipment
- Review and analyzes specifications, sketches, engineering drawings, ideas and related design data to determine critical factors affecting tooling and system design
- Analyze existing machinery implement changes to reduce down time and rejects
- Generates operator and machine cycle time calculations using standard timing estimates
- Draws rough sketches and performs mathematical computations to develop tooling and system design
- Applies knowledge of mathematical formulas and physical laws and uses conventional and computerized work aids to make calculations
- Performs preliminary and advanced work in development process

Qualifications for tool design engineer

- Bachelors of Science Degree in Chemical, mechanical, electrical, industrial, or civil engineering
- Associate degree in related field or toolmaker apprenticeship or equivalent work-related equivalent
- Minimum of 5-7 years' recent experience with utilizing CAD systems
- Minimum of 1-2 years' experience in estimating fabrication costs