

## Mechanical Designer MEII:

The mechanical designer's main responsibility is to produce cost effective and functional part models, assemblies, and drawings on time and on budget.

1. Core competencies and responsibilities
  - Solid Works - proficient in modeling, assemblies, drawings, sheet metal, weldments, BOM's, configurations, templates, etc.
  - Take instruction from lead design engineer on concepts
  - Ability to concept, design, and detail a project from start to finish (fabrications, sheet metal, tooling, etc.
  - Responsible for maintaining budgeted hours and parts cost on individual projects
  - Understanding of mechanical, fluid power, and electrical principles
  - Design for manufacturability, cost effectiveness, and time reduction
  - Work with vendors to obtain quotes and act as the buyer for these components
  - Follow processes and procedures
  - Specify manufactured and purchased parts for ordering and follow up
  - Develop effective work orders with complete instructions
  - Review and confirm proper assembly, fit, and function of designs.
2. Efficiency and cost reductions
  - Rework reduction
  - Engineering completeness
  - Reusing existing design where feasible
  - Documenting designs that can be re-used
3. Additional requirements
  - 5+ years of experience in designing custom equipment (robotic systems, material handling, special machines, fixtures)
  - Knowledge of machine tools a plus
  - Hands on shop assembly and/or machining a plus
  - Mechanical design or engineering degree a plus but not required

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