

Job title	<i>Mechanical Design Engineer (LEAD) MEIII</i>
Reports to	<i>Engineering Manager</i>

Job purpose

The lead mechanical design engineer's main purpose is to concept and design functional systems and work with the mechanical designers and drafters to produce these systems on time and on budget. This position oversees the design of all projects and is responsible for their function and budget. Up to four designers/drafters will report to this position.

Duties and responsibilities

- Mentor and manage workload of designers and drafters.
- Overall responsibility for mechanical functionality of all projects.
- Must work well with SolidWorks and be proficient in modeling, assemblies, drawings, sheet metal, weldments, BOM's, configurations, templates, etc.
- Evaluate help and maintain all of the mechanical group's software (i.e. SolidWorks).
- Collaborate with project team, peers and management to assure design direction/changes are understood.
- Recommend design modifications to eliminate machine or system flaws and cost overages.
- Help ensure proper research is done on items specified for use in automation systems and machines.
- Help ensure all designs comply with all quality and safety requirements.
- Understanding of mechanical and fluid power principles.
- Design for manufacturability, cost effectiveness, and time reduction.
- Design for aesthetics when cost effective.
- Help develop and follow processes and procedures.
- Develop effective work orders with complete instructions.
- Rework reduction.
- Responsible for mechanical budget and timeline on all projects.
- Engineering design completeness.
- Reusing existing design where feasible.
- Help to ensure design changes are documented.
- Help create designs that can be reused.
- Updating progress and notes in timeline tracking software.

Qualifications/Requirements

- Must be proficient in using SolidWorks and Microsoft Office products.
- 10+ years of experience in designing custom equipment (robotic systems, material handling, special machines, fixtures).
- Mechanical design or engineering degree a plus but not required.
- Ability to concept, design, and detail a project from start to finish (fabrications, sheet metal, tooling, etc.)
- Must have experience in specification and verification of manufactured and purchased components used in designs.
- Knowledge of machine tools a plus.
- Hands on shop assembly and/or machining a plus.
- The individual must demonstrate the ability to check over other mechanical designer's work and concepts.
- Ability to read and understand mechanical, fluid power prints, and understand basic electrical principles.
- Must have the ability to mentor and drive other mechanical engineers in a positive way.
- Good customer service skills will be required.
- Grooming and dress must be appropriate for the position.
- Independent personal transportation to office is required. Work vehicles are provided for travel to and from customer's locations and supplier sites.
- The individual must demonstrate attention to detail and finishing.
- The individual must exhibit flexibility of work hours to adjust to surge situations based on critical project or service requirements. The individual will need be able and willing to work overtime as necessary.
- The individual must be able to multitask, prioritize, show extreme resourcefulness and problem solving skills and perform well under pressure.
- The individual must be able to pass a drug test and background check.
- The individual must be able to work both independently and within a team environment.
- The individual must demonstrate professional behavior at all times when dealing with customers, management and co-workers.
- The individual must have clear, concise and accurate communications skills in English (both verbal and written).
- The individual must wear required safety equipment at all times while at customer facilities.

Working conditions

- Regular hours will be between Monday-Friday 7:30am - 4:00pm.
- Office, shop, or customer manufacturing site environment.
- Ability to sit and work at computer for an extended period of time.
- Ability to walk up numerous flights of stairs/ladders and/or work in tight spaces in extreme conditions as needed.
- May work near moving mechanical parts and equipment.
- May have to walk where floors are slippery at customer sites.
- Possible weekend, holiday or evening work as needed.
- Travel to customers for meetings will be required.

Physical requirements

- Ability to lift and/or move up to 40 lbs.
- This job can involve sitting or standing for extended periods of time.
- The individual must have sufficient mobility, included but not limited to: bending, reaching, turning, kneeling, climbing stairs and ladders.
- The individual must be able to perform two-handed work.
- There is a possibility that due to parking availability and locations at end users, walking moderate to long distances at times may be required.

Benefits Include:

- Medical insurance
- 401K with Company Match
- Supplemental Insurance such as dental
- Company Paid cell Phone
- Paid time off
- Short / Long Term Disability
- AD&D
- Life Insurance
- Paid holidays