



Job Description

Job Title:	Manufacturing Engineer	FLSA Status:	Exempt
Department:	Manitowoc, WI	Manages others:	No
Reports to:	Engineering Manager	Travel:	Little to None

Overview: Our Manufacturing Engineer is responsible for leading the effort to reduce cost, improve quality, review and create efficient production processes, implement Lean methodologies, as well as providing shop support by overseeing processes, troubleshooting, and developing tools and assembly fixtures in a manufacturing environment.

This position will also involve assisting with managing ECRs/ECOs from manufacturing to engineering, creating and maintaining preventative maintenance processes and schedules, creating efficient production documentation, assisting in creation and support of assembly and test fixtures during regular production and prototyping of new products, new tooling research and acquisitions, and improving and maintaining ERP system information.

Essential Responsibilities:

- Provide daily production support
- Politely collaborate with production personnel seeking methods to improve safety, quality, and efficiency
- Assist with Design for Manufacturability (DFM) during product development stages
- Design systems and capture data by tracking trends through performance metrics
- Determine and implement cost reductions by improving process efficiencies
- Perform and analyze root causes of failures, and create corrective action plans
- Create, maintain, and audit preventative maintenance schedules for manufacturing equipment
- Assist Maintenance to troubleshoot manufacturing equipment failures (tools, machines, and fixtures)
- Design in 3D SolidWorks; machine, assembly, weld and test fixtures for fabricated and machined components
- Assist with incoming change requests from engineering and manufacturing
- Assist manufacturing with prototypes
- Create and define documented process flows
- Validate labor estimates by performing time studies on manufacturing builds
- Implement Lean manufacturing and systems throughout the organization
- Assist in maintaining, programming and implementing automation
- Other duties, as assigned

Minimum Qualifications:

- Bachelor of Science degree or higher in Industrial, Manufacturing, Quality, Mechanical, or Related field
- 10 years minimum previous experience in a manufacturing engineering roll.
- Design experience of assembly fixtures and other manufacturing aides using 3D CAD
- Thorough understanding of Lean Manufacturing, Theory of Constraints and Six Sigma
- Strong knowledge and practical experience with mechanical design principles



- Ability to develop, read, and comprehend mechanical drawings
- Knowledge of ISO 9001 standards and compliance requirements, preferred
- Working knowledge of Microsoft Outlook, Excel, Word, and PowerPoint
- Experience in SolidWorks, preferred but not required
- Good oral and written skills
- Ability to multi-task and function in a fast paced work environment
- Self-directed and able to prioritize responsibilities to meet deadlines
- Strong desire to work within a team environment

Work Environment: The work environment characteristics described here are representative of those an employee encounters while performing the essential job functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Job hazards are defined as the following:
 - Typical hazards of an office environment
 - May be exposed to possible hazards from electrical/mechanical equipment in both the office lab and in manufacturing
 - There are a variety of physical hazards in which there is danger to life, health, or bodily injury, such as proximity to moving mechanical parts, moving equipment, heavy parts, electrical shock, compressed air and exposure to chemicals.
 - Machines, tools, equipment, and work aids which may be representative, but not all inclusive, of those commonly associated with this type of work.
 - Air power tools, electric drill, drill press, grinders (both hand and bench), wrenches, torches, welders, a variety of hand tools, mills, and electric cords.

Physical Requirements: The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this position. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Customer contact may result in stressful situations.
- Work is primarily sedentary in nature. Some physical requirements include sitting, walking, standing, bending, squatting, twisting, lifting, grasping, etc.
- Must be able to lift objects from floor to above shoulder level. Must be able to move objects/parts/tools and equipment from one area to another and one level to another level.
- This position includes the following physical demands:
 - Reaching – extending and pulling the hand(s) and arm(s) in any direction while working with various tools as mentioned before.
 - Handling - seizing, holding, grasping, turning, pulling, or otherwise working with hands and arms.
 - Pulling – using arms in such a way as pulling of tools, wrenches, parts, and equipment to complete the job.
 - Fingering – picking, pinching, or otherwise working with fingers primarily (rather than with whole hand or arm as in handling).
 - Feeling – being able to determine objects such as size, shape, temperature or texture by means of receptors in skin, particularly those of finger tips.