POSITION DESCRIPTION

Job Title:	Industrial Engineer	**Prepared:**	December 3, 2018
Department:	Engineering	**Location:**	Gurnee, IL
Business:	Medical		
Reports To:	Sr. Value Stream Manager	**FLSA:**	Exempt

GENERAL SUMMARY

Definition of Industrial Engineering

A management process where the focus is primarily to improve the overall client value and carry out various activities to achieve the best results. The Industrial Engineer has a crucial role in ensuring that the efficiency is increased by eliminating the wastes and taking into consideration what are the things that will matter rather than blindly accepting the existing ideas and practices. They will work to develop and initiate a program that will help in closing the gaps that have been identified, thus enhancing the productivity and quality standards.

Summary of Responsibilities

The Industrial Engineer determines and applies the most efficient and cost-effective methods for industrial production within the organization. The Industrial Engineer is responsible for leading and deploying the best practices in the manufacturing organization by taking initiative to support continuous improvement in various manufacturing processes by reducing the tooling costs and improving the flow of material and setting up cycle times. They work toward achieving the manufacturing goals and objectives of the organization. The Industrial Engineer leads, facilitates, executes and manages projects to reduce the costs significantly by implementing Lean, WCP, and Six Sigma tools and methodologies. They use their expertise to identify and recommend improvements by applying the relevant principles.

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KEY RESPONSIBILITIES (Include but not limited to)

- To make optimum utilization of Lean Manufacturing and Six Sigma tools to assist in preparing the feasibility studies and ensure that the costs incurred are justified.
- Evaluate various improvements that need to be done and create value analysis to look for ways to reduce the costs in the engineering and manufacturing applications.
- Confer with senior and other related personnel to create designs and to clarify and resolve any relevant issues.
- Provide directions to help in preparing the layouts and detailed drawings that will eventually assist in improving the manufacturing processes.
- Develop methods that would reduce cost without compromising on the quality standards to ensure increased efficiency and quality and make recommendations.

- Achieve cost effective designs and carry out research, design, and development work of the manufacturing process that would include assembly methods, production flow and production equipmen.t
- Prepare and maintain detailed layouts, designs, develops, tests, and cost to justify tools, equipment, and machinery that may be required for manufacturing processes.
- Review manufacturing for potential safety hazards and ensure that safety practices are being followed.
- Train supervisors and operators and incorporates quality checks and balances the workflow to increase productivity.
- Determine root cause(s) for system inefficiencies and failures and leads the implementation of changes in designs and the related processing methodologies.
- Identify the key areas for improving standards and incorporate new techniques to enhance the existing operating standards.

REQUIREMENTS FOR THIS POSITION

a. Professional Experience

- Three (3) years' experience in Manufacturing Environment required
- Facilitating, Value Stream Mapping or Kaizen/Six Sigma events preferred
- Classroom instructions and training preferred

b. Education

- Bachelors' Degree Required
- Field – Industrial Engineering or related engineering discipline
- Lean Certification Preferred

c. Language

- English
- Spanish a plus

d. Travel (estimated % of time)

- Domestic approximately 10%
- International approximately 1%

PERSONAL TRAIT PROFILE

- Strong process analysis skills
- Demonstrated Project Management Skills
- Demonstrated hands-on practical use of Lean principles, methods and tools to eliminate waste, improve productivity, increase customer value and reduce costs.
- Demonstrated use of Six Sigma methods and tools to eliminate defects, reduce variability, and improve quality.

- Working knowledge on a wide range of Toyota Production System based Lean topics including: The 5 Lean Principles, 3Mus, 8 Wastes, Kaizen, Standardized Work, Visual Management, PDSA/DMAIC, Just in Time, Jidoka, Kanban, Morning Market, 5S, Gemba, Poka-Yoke, 5 Whys, Root Cause Analysis, Lean Thinking, Lean Leadership and Management, and 7 basic quality tools
- Lean Six Sigma Green Belt with demonstrated successes
- Familiar with Structured problem solving (DMAIC, Shainin, RCCM, etc.) to effectively lead problem investigation and resolution
- Understands manufacturing metrics as they align to Process Improvement initiatives
- Able to use statistical analysis software in Excel or Minitab
- AutoCAD and SolidWorks proficiency preferred
- Good written and verbal communication, as well as solid presentation and facilitation skills
- Proficiency with Microsoft Suite; including Excel, PowerPoint, Word, Visio, & Microsoft Project

KEY RELATIONSHIPS

a. Internal

- Reports directly to Sr. Value Stream Manager
- Direct Reports include:
  - None
- Work with all levels of Production and Quality Teams

b. External

- Vendors