



#: 1.0549c

Job Description: Manufacturing Engineer

Position Overview

This full-time position is focused on designing, implementing, and standardizing manufacturing processes, with a strong emphasis on providing the engineering resources necessary to support a timely, complete, and flawless first-time launch of new products. Additionally this position is the champion of continuously improving the production process for legacy products, driving reduced cost, improved quality and reduced lead time. This position reports to the Engineering Manager and is a critical contributor to ensuring product manufacturing process and required tools are accurately and clearly defined, communicated and delivered.

Key objectives for this role:

- Develop manufacturing methodology to improve operations safety, product quality, reduce lead times and deliver products at lowest possible cost, with special emphasis placed on optimizing the launch of new products.
- Facilitate effective communication and utilize input from process stakeholders to deliver optimal results.
- Develop accurate and timely process routings, tooling, gaging and fixturing to ensure on-time delivery and first-pass success of machined products.
- Drive continuous improvement in existing engineering and manufacturing processes, as well as MIC core capabilities.
- Oversee capital projects required for business growth in current markets as well as new industries.

Job Duties and Responsibilities:

- Develop manufacturing processing structures to support production needs – including BOM, raw material and outside service requirements, manufacturing routers, process drawings.
- Review customer specification to ensure that all technical requirements are met when introducing new product.
- Identify product / process needs to accurately design and provide all fixtures and gages required to manufacture and deliver product.
- Work closely with production team members to understand improvement opportunities and develop and execute plans to realize improvements.
- Evaluate and implement internal or customer driven engineering changes in an efficient and timely manner.
- Perform engineering peer reviews (EPR) to improve project release accuracy and product launch success.
- Work with cross-functional teams including Operations, Planning, & Programming to ensure production process and machining / tooling requirements are synchronized.
- Collaborate closely with customer at the front end of new business opportunities and during manufacturing to develop valuable design-for-manufacturability solutions.
- Evaluate, recommend, and implement improvements and modifications to MIC Group's core capabilities, equipment, and ability to conduct business.
- Adhere to defined work instructions and processes to perform at a consistently high level and mesh smoothly with existing processes,
- Work and communicate in a highly professional manner with colleagues and customers alike. Success in this position will require the development of cooperative, cross-functional and team-based relationships that are based on strong, professional communication and clear understanding of shared objectives.

Requirements:

- Bachelor degree in manufacturing-related engineering discipline plus 4+ years of experience in a manufacturing environment.
- Knowledge of the following manufacturing processes: Milling -Vertical and Horizontal CNC 3-5 axis, Turning CNC, EDM, Gun Drilling, Ejector Drilling, Honing.
- Strong ability to read and interpret technical documentation, specs, drawings, GD&T, and manuals, and effectively integrate the information contained into a cohesive whole.
- Knowledge of and ability to apply principles of machining, metrology, quality control, mathematics, and engineering economics.
- Proficiency with parametric CAD software, Solidworks preferred.
- Experience using ERP systems, JD Edwards preferred.
- Proficiency with office software, particularly spreadsheet software such as Microsoft Excel.
- CNC machine programming experience and capabilities. MasterCAM and Esprit experience preferred.
- Extensive hands-on experience with machine shop equipment, is highly desirable.

- Statistical analysis of manufacturing processes is beneficial.
- Development of cost models to support new business quotation/estimating is beneficial.
- Foundry experience (Investment casting), especially tool, mold and die design is beneficial.
- Weld engineering and weld procedure qualification is beneficial.
- Additive manufacturing experience and knowledge is beneficial.