



## Manufacturing Engineer

<b>Date:</b>	December 10, 2018	<b>Job Family:</b>	Professional
<b>Department:</b>	Engineering	<b>Job Group:</b>	Technical
<b>Reports to:</b>	Manager of Engineering Services	<b>OT Status:</b>	Exempt
<b>Location:</b>	Monticello, MN	<b>Relocation Available:</b>	No

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**Ultra Machining Company** is dedicated to making a difference and improving people's quality of life. We deliver life-enhancing products which include medical devices and implants, transportation and energy technologies. Joining our team means working alongside passionate individuals who are committed to our core values of integrity, innovation and quality. Help us build the future of manufacturing by leveraging your creativity, expertise, ambition, and can-do attitude. We are a strong team growing towards a bright future. Join us if you have the aspirations, skills, and problem-solving savvy to contribute to our success.

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### Job Summary

The Manufacturing Engineer is primarily responsible for directing the manufacturing process of assigned parts to ensure they meet established specifications, ensures customer requirements are achieved and that parts are manufactured in a cost effective and timely manner.

### Essential Functions

*The primary duties and responsibilities of the Manufacturing Engineer consist of but are not limited to:*

#### **Cost Effective Process**

Develops cost effective processes and procedures for the manufacture of parts and assemblies in conformance with established specifications and customer requirements in conjunction with production personnel

- Analyzes short and long-term needs for the job
- Develops manufacturing cost estimates to support quoting activities
- Develops time standards for the jobs to be run in production
- Develops and maintains manufacturing documentation, including CAD drawings for cutting tools, jigs, and fixtures
- Designs fixturing to facilitate machining, inspection, finishing and/or assembly operations
- Documents production processes to be understood and implemented by production personnel
- May designate, modify and/or make recommendations for the procurement of equipment necessary to produce parts and/or assemblies

#### **Input and Maintenance of Manufacturing Plan in ERP System**

Responsible for accurate input of the manufacturing plan into the ERP system and maintenance of the following key elements of the system:

- Part records
- Product structure / Bill of material
- Manufacturing operations
- Configuration control

### **Continuous Improvement**

Responsible to perform activities that reduce cost, improve quality and on-time delivery

- Analyzes machining and assembly cycle times to provide continuous cost reductions
- Makes recommendations and directs changes to achieve improvements
- Analyzes feedback/recommendations, incorporates improvements as appropriate

### **CNC Programs**

Works with a team to develop robust and verified CNC programs

- Supply CNC Programmer with complete machining plan, including identifying any special cutting tools or fixtures as required
- Coordinate efforts to ensure CNC programs are complete and verified before the scheduled start date

### Qualifications

- A bachelor's degree in manufacturing /mechanical engineering or a related field with a minimum of 2 years relevant experience, or a two-year post high school diploma/certificate and a minimum of six years of relevant experience
- Experience with CAD/CAM systems utilizing solid modeling
- Proficient PC skills in a Windows environment
- Ability to travel, including air, occasionally overnight

### Competencies

- Experience in the machining industry, job shop machining preferred
- Experience developing CNC programs and /or machining process plans
- Experience with special processes (e.g. plating, welding, heat treat, etc.)
- Proficient in the application of GD&T and related inspection methodology
- Understanding of multiple manufacturing processes as well as a variety of materials
- Knowledge and/or experience in the design and selection of fixturing and tooling for complex parts
- Experience with ISO quality systems and World Class Manufacturing principles
- Demonstrated effective interpersonal and communication skills, both verbal and written
- Ability to perform engineering calculations related to machining
- Able to work on multiple projects with accuracy
- Highly detailed
- Excellent problem solving skills
- Strong CAD skills
- Experience conducting process capability studies
- Experience with ERP systems

### **Company Description**

UMC is a premier contract manufacturer for medical, aerospace, energy and commercial components and assemblies with AS 9100C (ISO 9001:2008) and ISO 13485:2003 certifications. Founded in 1968, the privately held company employs 200 people and located in Monticello, MN. UMC is an industry leader helping world-class customers succeed through collaboration and innovation and is committed to continuous improvement throughout its operations. For more information, visit [ultramc.com](http://ultramc.com).

UMC is an Equal Employment Opportunity Employer

Interested candidates may apply online via our website at [www.ultramc.com](http://www.ultramc.com) and by submitting a resume to Human Resources at [HR@ultramc.com](mailto:HR@ultramc.com) or Fax 763-201-3434.

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