



## Prototype Machinist

**Date:** January 31, 2018

**Location:** Monticello, MN

**Exempt / Non-Exempt:** Non-Exempt

**Full Time / Part Time:** Full Time – 2<sup>nd</sup> Shift (Monday – Thursday 4:30pm-3:00am)

**Relocation Available:** No

**Reports to:** Manager of Engineering Services

**Classification:** Production

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### Job Summary

The Prototype Machinist position is involved in the development of processes and methodologies of manufacturing first run parts.

### Essential Functions

*The primary duties and responsibilities of the Prototype Machinist consist of but are not limited to:*

- One of the key components is documentation of methods for future application in a production setting
- Machine production
- Machine maintenance
- Perform in process inspection of machined products (including documentation of results)
- Constant use of hands and upper extremities in fine and gross manipulation using various wrist positions and grip/pinch spans to operate equipment, push buttons, carry boxes, push carts, etc.
- Frequent firm grip with tools requiring torque to tighten machine parts
- Continuous standing at one machine for prolonged period of time
- Maintain balance when completing machine set-up, production and maintenance duties
- Frequent lifting of steel plates 30# from racking, to cart and machine
- Setup and operation of multiple thru wire EDM machines
- Assist in development of tooling, processes and fixturing for single and multiple pallet production
- Complete secondary operations i.e. deburr, polish, etc. in cycle time per print and process
- Able to lift 70 lbs

### Qualifications

- Minimum requirements- Graduate of high school
- Two year certificate in machine trades – preferred
- Minimum work experience – 5 years in a manufacturing environment in relating to machine trades and the products produced

### Accountabilities

- The Prototype position is responsible for all areas in the development of process, manufacturing methods, and collection of baseline data, for first time parts at UMC.

- The Prototype position has the unique opportunity for exploration into new technologies and manufacturing methods, free of conventional constraints at UMC

#### Authorities

- Stop the machine or process if safety, quality, or productivity standards are compromised

#### Competencies

- Strong CAD/CNC programming skills
- Proficient in GD&T
- Strong mathematics skills
- Understanding of multiple manufacturing processes
- Highly detailed
- Strong mechanical aptitude
- Able to work independently under minimal supervision
- Excellent problem solving skills
- Understanding of tools required to check product to guarantee part quality
- Strong Trigonometry skills preferred

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