



Manufacturing Workshop Engineer/ CNC Operator

We are seeking a Manufacturing Workshop Technician to join our manufacturing facility to operate and maintain.

1. 3 Axis CNC Router/
2. 4 axis vertical milling machine/
3. Vacuum forming machine/
4. Laser cutting machines.

to offer services to our clients. We have already set up a CNC Machining facility with multiple milling and cutting machines. The CNC Machining Centre is part of the larger MATTER Facility that provides for prototyping and pilot production facilities across all the engineering domains.

Role: Manufacturing Workshop Engineer/ CNC Operator

Positions Available: 1

Employment type: Full time (Monday to Friday) 40 hours per week

Roles and Responsibilities

- Operate high precision laser engraving/ cutting/ milling machines efficiently.
- Perform daily operations with minimal supervision.
- Operate Scales, Calipers, Laser Cutting Equipment, Basic hand tools, PLCs, Microscope & IM (Instant Measure Machine)
- Assure all quality checks are completed and documented properly on the production specs log
- Inspect and measure finished products and compare them with requirements to determine if the process has been completed properly.
- Check and maintain machinery daily to ensure functionality.
- Perform routine maintenance and cleaning of cutting equipment and work area in accordance with company standards and manufactures machine recommendations.
- Maintain routine dust collector service and associated logbook in assigned area and report equipment deficiencies.
- Maintain machines and ensure all tools and materials needed are on hand to ensure continuous production.
- Prepare and operate CNC machines to perform tasks such as cutting, milling, drilling, grinding, etc.,
- Understand specifications of the task at hand and the desired result by reading mechanical drawings, blueprints etc.,
- Translate instructions into computer commands so the machines can perform the required function.
- Prepare and load raw materials and parts onto the machines.
- Prepare tools, jigs & fixtures etc. accessories required for milling machine jobs.
- Prepare a test run to check if the machines produce outputs according to specifications.
- Set machines to complete full cycles to fabricate large number of parts.
- Supervise the machines while they execute the tasks and make any necessary adjustments to produce a better result.

- Maintains equipment by completing preventive maintenance requirements; following manufacturer's instructions; troubleshooting malfunctions; calling for repairs.
- Maintains safe operations by adhering to safety procedures and regulations.
- Skill in operating CNC machinery and tooling as well as precision measurement tools
- Inspect and measure finished products and compare them with requirements to determine if the process has been completed properly.
- Check and maintain machinery daily to ensure functionality.
- Conduct regular CNC machine assessments.
- Ensure compliance to all safety procedures and prepare reports for all unsafe conditions in processes and ensure optimal use of all materials and equipment.

Essential skills and aptitude

- Must have knowledge and experience with
 - 3D CAD modelling and 2D CAD Drawing
- Basic knowledge of computer skills - Google sheets and Google docs
- Proven measurement and mathematical fraction/decimal conversion skills
- Be familiar with material utilization concepts.
- Simulation by SolidCAM
- Perform basic inspection operations with digital calipers, thread gauges, etc. (Basic knowledge on Geometric Dimensioning and Tolerancing, ie GD & T)
 - Must have knowledge and experience with
 - GCode and other CNC programming techniques
 - CNC machining experience
 - Laser cutting, Rapid Prototyping, Hand tools and Power tools.
 - Good to have.
 - Fabrication experience with wood, metal, plastics, and composites
 - Good working knowledge of industrial adhesives
 - A background in Industrial Design, Engineering, Product Design, Architecture, Sculpture, Woodworking, Robotics or similar hands-on craft is preferred.

Qualifications and Educational Background

- Diploma/ Degree in Mechanical/Instrumentation/Automobile/ Electronics engineering
- Non-engineering backgrounds are also acceptable based on the experience in manufacturing machines workshop responsibilities.

Experience

- 4+ years Relevant industry experience in Manufacturing Machines Operations

CV'S to be sent: Email Id : hr.sid@iisc.ac.in