

CNC Lathe Programmer Job description

Employer Information

Organization Name: Pegasus Performance

About Our Organization: We are a leading manufacturer and supplier of complex machined parts and assemblies serving industries such as Food Processing, Automotive, Electronics, Industrial, Medical, Oil and Gas. Our facility utilizes some of the most advanced and accurate CNC milling and turning equipment available. Our quality inspection department hosts some of the most accurate test equipment to meet the most extreme demands of today's machine industry. With a calculated focus on lean manufacturing, we manufacture, assemble, finish, and package projects based on our customers' needs. From aluminum and steel to specialty alloys, we manage a diverse product base for integration into a variety of systems for various manufacturers. Our inclusive knowledge in product design and precision machining enables us to provide solutions in manufacturing that exceed expectations and brings value to our customers. The entire Pegasus family is driven to provide the best product possible for our customers. We understand that our customers systems are vital in maintaining their success. We provide one on one customer service and rapid turnarounds in order to ensure their progress. Our dedication to quality, customer satisfaction, and competitive pricing lets us stand apart from the competition.

Job Information 51-4012.00 Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic

Job Title: CNC Lathe Programmer

Job Location: Galesburg, IL

Job Description

Job Purpose

Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems.

Tasks

Manually write complete G Code programs (MASTER CAM a plus)

Work on multiple levels, change between and create new Work Coordinate Views and draw with Solid Works and write tool paths

Read and write G-Code

Required to check posted programs for errors and performance

Analyze job orders, drawings, blueprints, specifications, printed circuit board pattern films, and design data to calculate dimensions, tool selection, machine speeds, and feed rates.

Determine reference points, machine cutting paths, or hole locations, and compute angular and linear dimensions, radii, and curvatures.

Observe machines on trial runs or conduct computer simulations to ensure that programs and machinery will function properly and produce items that meet specifications.

Compare encoded tapes or computer printouts with original part specifications and blueprints to verify accuracy of instructions.

Enter coordinates of hole locations into program memories by depressing pedals or buttons of programmers.

Write programs in the language of a machine's controller and store programs on media such as punch tapes, magnetic tapes, or disks.

Modify existing programs to enhance efficiency.

Enter computer commands to store or retrieve parts patterns, graphic displays, or programs that transfer data to other media.

Prepare geometric layouts from graphic displays, using computer-assisted drafting software or drafting instruments and graph paper.

Determine the sequence of machine operations, and select the proper cutting tools needed to machine workpieces into the desired shapes.

Revise programs or tapes to eliminate errors, and retest programs to check that problems have been solved.

Work Context

Ability to learn quickly, Ability to successfully participate as a member of a team, Ability to work with minimum supervision, Flexible with hours and work days or swing Shifts, as we are a custom manufacturing plant with occasional weekend work, Wear all proper protective or safety equipment as required in work areas, Lift and carry heavy (up to 50 lbs) and /or awkward items, Standing for the full shift and have full range of motion (including but not limited to bending and lifting) required to perform the job functions in an non-climate controlled warehouse, Requires standing, Requires using hands to handle, control, or feel objects, tools or controls, Requires repetitive movement, Requires contact with others (face-to-face, by telephone, or otherwise), Requires face-to-face discussions with individuals or teams, Requires telephone conversations, Requires use of electronic mail, Requires competition or awareness of competitive pressures, Requires making decisions that impact the results of co-workers, clients or the company, Opportunity to make decisions without supervision, Requires making decisions that affect other people, the financial resources, and/or the image and reputation of the organization, Mistakes are not easily correctable and have serious consequences, Freedom to determine tasks, priorities, and goals, Requires repeating the same physical activities or mental activities over and over, Requires being exact or highly accurate, Job pace is determined by the speed of equipment or machinery, Requires meeting strict deadlines, Requires work with others in a group or team, Requires work with external customers or the public, Requires coordinating or leading others in accomplishing work activities, Includes responsibility for work outcomes and results, Includes responsibility for the health and safety of others, Requires wearing common protective or safety equipment, Job tasks are performed in close physical proximity to other people

Work Activities

Inspecting Equipment, Structures, or Material
Evaluating Information to Determine Compliance with Standards
Judging the Qualities of Things, Services, or People
Organizing, Planning, and Prioritizing Work
Establishing and Maintaining Interpersonal Relationships
Documenting/Recording Information
Thinking Creatively
Communicating with Supervisors, Peers, or Subordinates
Updating and Using Relevant Knowledge
Identifying Objects, Actions, and Events
Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment
Processing Information
Interpreting the Meaning of Information for Others
Monitor Processes, Materials, or Surroundings
Analyzing Data or Information
Making Decisions and Solving Problems
Controlling Machines and Processes
Getting Information
Interacting With Computers
analyze technical data, designs, or preliminary specifications
lay out machining, welding or precision assembly projects
read blueprints
understand technical operating, service or repair manuals
draw prototypes, plans, or maps to scale
program computer numerical controlled machines
use computers to enter, access or retrieve data

inspect manufactured products or materials
use drafting or mechanical drawing techniques
understand engineering data or reports
read production layouts
read technical drawings
configure computers in industrial or manufacturing setting
calculate engineering specifications
solve machine tool problems
use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks
monitor equipment or machine operation to detect problems

Qualifications

Education and Experience

Years of Experience: 5 yrs programming ex

Education: High School/G.E.D

Degree or Formal Training: 2 yrs education (Vocational, 2 yr certificate or Associates)

Additional Information:

Ability to write G-Code Programs (Mastercam a plus):

Skills

Basic Skills

Active Learning

Understanding the implications of new information for both current and future problem-solving and decision-making.

Active Listening

Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking

Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Learning Strategies

Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.

Mathematics

Using mathematics to solve problems.

Monitoring

Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Reading Comprehension

Understanding written sentences and paragraphs in work related documents.

Speaking

Talking to others to convey information effectively.

Writing

Communicating effectively in writing as appropriate for the needs of the audience.

Social Skills

Coordination
Adjusting actions in relation to others' actions.

Instructing
Teaching others how to do something.

Negotiation
Bringing others together and trying to reconcile differences.

Persuasion
Persuading others to change their minds or behavior.

Social Perceptiveness
Being aware of others' reactions and understanding why they react as they do.

Complex Problem Solving Skills

Complex Problem Solving
Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Technical Skills

Equipment Selection
Determining the kind of tools and equipment needed to do a job.

Installation
Installing equipment, machines, wiring, or programs to meet specifications.

Operation Monitoring
Watching gauges, dials, or other indicators to make sure a machine is working properly.

Operation and Control
Controlling operations of equipment or systems.

Operations Analysis
Analyzing needs and product requirements to create a design.

Programming
Writing computer programs for various purposes.

Quality Control Analysis
Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

Troubleshooting
Determining causes of operating errors and deciding what to do about it.

Systems Skills

Judgment and Decision Making
Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Systems Analysis
Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.

Systems Evaluation
Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.

Resource Management Skills

Management of Material Resources

Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.

Management of Personnel Resources

Motivating, developing, and directing people as they work, identifying the best people for the job.

Time Management

Managing one's own time and the time of others.

Knowledge

Required:

English Language

Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Mathematics

Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Mechanical

Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Preferred:

Computers and Electronics

Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

Design

Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Engineering and Technology

Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Production and Processing

Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.

Specific Tools & Technology:

Able to write G-Code programs (Mastercam a plus)

- Must be able to work on multiple levels
- Must be able to change between and create new Work Coordinate Views
- Must be able to draw with solids and write tool paths

Read and write G-Code

Measuring Tools knowledge required (Calipers (Dial, Digital, and occasionally Vernier), Micrometers, Height gauges, Dial indicators, Bore Gauges and CMM)

Conceive Holding Fixtures

Knowledge of manual mills and lathes and their safe accurate usage

.Required to fabricate fixtures and other work holding devices

Must hold tolerances as specified on drawings

Must be able to operate manual mills, cut off saws, grinders, deburring equipment