



Mitutoyo Research & Development America, Inc.

REQUISITION NUMBER:	2024-02
MRDA POSITION TITLE:	Senior Research and Development Machinist
REVISION DATE:	April 2024
REPORTS TO:	Senior Optomechanical Engineering Manager
LOCATION:	Kirkland, WA
STATUS:	Non-Exempt/Hourly; Full-time
TRAVEL:	Occasional business travel
EDUCATION REQUIRED:	Associate degree preferred
<u>REQUIRED EXPERIENCE:</u>	10+ years of machining or relevant experience
<u>REQUIRED SKILLS:</u>	<ul style="list-style-type: none">• Ability to safely setup and operate manual and CNC machine tools (mill and lathe) (5+ years' experience) to machine complicated and precise parts• Ability to program CNC machine tools using CAM software (Mastercam preferred) (5+ years' experience)• Ability to use 2D/3D CAD to design parts and fixtures (SOLIDWORKS preferred). Ability to understand 2D drawings with GD&T• High attention to detail• Problem-solving skills• Have a passion and drive for finding ways to improve design for manufacturing and providing feedback to mechanical engineers• Work effectively both independently and in a cross-functional team• Excellent verbal and written communication skills• Demonstrate initiative and motivation• Familiarity with MS Office
<u>BENEFICIAL EXPERIENCE/SKILLS:</u>	<ul style="list-style-type: none">• Precision metrology experience• Experience operating capital metrology equipment (CMMs, form equipment, etc.) Knowledge of dimensional metrology devices and measurement techniques• Familiarity working in the metric system• Knowledge of Japanese language and business practices

DUTIES & RESPONSIBILITIES:

- Performs a variety of moderately complex technical tasks to assist engineers in R&D projects
- Under limited supervision, may assist engineers in design, fabrication, and assembly of prototypes or models from drawings, sketches or verbal instructions
- May conduct experimental testing or assist in trouble shooting problems
- Under limited supervision, performs design assignments to assist engineers in the development of complex systems
- Creates new or modified designs subject to engineering analysis and approval
- Uses 2D and 3D CAD and other computer tools as necessary to generate documentation
- Verifies completed work, checks dimensions, material and quantities. Uses precision measuring tools to check work against specified tolerances
- Applies knowledge of practical mechanical and fabrication techniques
- Performs complex precision machining operations in support of developmental activities. Working from own designs, drawings or engineering instructions, fabricates intricate, complex parts, tools or fixtures for development, model shop or prototype projects
- Programs CNC machine tools using CAM software
- Plans and completely executes assignments using machine tools such as lathes, drill presses, milling machines, grinders, shears, etc.
- Designs and constructs temporary tools, dies, jigs, and fixtures needed to produce experimental parts
- Maintains shop area and equipment
- Manages machine shop budget and purchasing
- Actively participates in design reviews for fellow team members

Disclaimer: The above information on this description has been designed to indicate the general nature and level of work performed by Team Members within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities, and qualifications required of Team Members assigned to this job.