**Job Title:** Metrologist

**Location:** Wilsonville, OR

**Department:** Engineering

**Job Type:** Regular

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**DWFritz**

DWFritz Automation, founded in 1973, has experienced rapid growth over the last 5 years and continues to grow! Since its inception, DWFritz has been producing brilliant automation solutions for our clients. Today, the market demand for automation combined with our world-class practices and cutting-edge technology places DWFritz on a trajectory to becoming a leading provider in the field of automation.

One thing that hasn’t changed at DWFritz is our focus on our core values, such as “Collaborate and Share the Credit,” a value that is deeply engrained in how we work together both in our US and China facilities. Our core value “Find a Better Way” promotes innovation and openness to doing things differently. It’s also the reason we have a company supported incubator program and an in-house lab.

Our World Headquarters operates from a modern, state-of-the-art facility located in Wilsonville, Oregon. Our employees enjoy standing desks, a recreation room, a fitness room, and a hearty oatmeal breakfast to start each day. Our spacious lunch room is the venue for weekly All Staff meetings and our frequent “Lunch and Learns.”

DWFritz is a wonderful place to work, with unique opportunities to participate in dynamic teams, a strong sense of culture and values, and a growing company. If you are considering a new opportunity we encourage you to check us out.

**Your Engineering Team at DWFritz**

The Engineering team at DWFritz loves a challenge. In the face of large, complex obstacles, they develop the most interesting and brilliant solutions. They see obstacles as opportunities for learning, adaptation and innovation. The Engineering team was founded on collaboration and there is no shortage of team work, but unique to DWFritz are the opportunities to work autonomously on individual projects as well. Members of this team have diverse backgrounds, come from a variety of industries, and are eager to learn. Working with state of the art technology and world-class customers requires flexibility and communication to produce reliable, brilliant solutions.

**Your Responsibilities**

* Constructs three-dimensional plane coordinates for measurement reference as defined on drawings.
* Completes a variety of mathematical calculations, including technical math, analytical geometry and trigonometry.
* Provide analyses of data or documentation in such areas as basic statistical analysis and model dimensional consistency and accuracy.
* Measures and records specified dimensions using CMM’s and conventional equipment to verify dimensional integrity
* Prepares and reviews layout reports describing all measurements taken.
* Compares and analyzes measurements to customer requirements, DWFritz and industry standards.
* Evaluates measurement data with Engineering and identifies probable causes of deviation.
* Inspects new and reprocessed tools and fixtures as directed to assure compliance with dimensional specifications.
* Create inspection programs, routines, macros, files and reports to manipulate and direct data files.
* Uses low-level computer language and CMM operational codes to create part inspection programs, routines, data base files and customizes printed reports.
* Generates inspection data using CAD.
* Prepares inspection plans and creates automated CMM inspection programs to inspect parts.
* Document CMM inspection program output and usage instructions.

**Your Qualifications**

* Strong fundamental and applied knowledge in precision industrial dimensional metrology
* Understanding of metrology concepts, GD&T, calibration, measurement uncertainty, MSA, R&R, statistical analysis
* Strong familiarity with contact and non-contact metrology technologies/sensors such as CMMs, profilometers, surfometers, roundness, automated in-line systems, LVDT, laser triangulation, structured light, interferometry, chromatic confocal, capacitance
* Familiarity with 3D analysis packages, such as Polyworks, Metrolog and ATOS (GOM)
* Familiarity with CMM inspection process packages such as Calypso and PCDMIS (Zeiss and Hexagon)
* Familiarity of dimensional requirements of precision components such as bearings or gears.
* Proficiency in MS Office including advanced Excel skills
* Able to assimilate/create procedures and communicate effectively throughout organization.
* Excellent communication and organizational skills.
* Comfortable presenting data to senior managers in meetings and via presentations.
* Ability to work independently with minimal supervision and meet deadlines.
* Ability to perform multiple tasks and prioritize.
* Problem solving ability independently and within a team environment.
* High attention to detail and accuracy.
* Ability to show initiative and adapt to rapid change in a fluid and flexible environment.

**Your Education and Experience**

* Experience with CMMs
* Bachelor Degree in Mechanical, Industrial, Electrical or Manufacturing Engineering
* 3+ years of experience developing and executing Metrology Inspection Strategies
* 3+ years of experience with CAD software, such as SolidWorks, AutoDesk Inventor, or other modeling packages
* 3+ years of experience related to manufacturing and/or metrology