



ARNOLD GAUGE

9823 Harwood Court
West Chester, Ohio 45014
Phone: (877) 942-4243
Fax: (877) 942-2877
mike@arnoldgauge.com
www.arnoldgauge.com

Job Title:	Design Engineer	Revision Date:	June 10, 2013
Location	Fairfield Ohio – near I-275 and RT.4	Department:	Operations
Supervisor	VP Operations	FLSA Status:	Non-Exempt

JOB SUMMARY/ADVERTISEMENT

Want to join a cutting-edge engineering company that helps US manufacturers succeed? Founded in 1918 by a quality engineer working for Henry Ford, we now use Laser, Vision, Contact, Robot and other technologies to measure parts to 1/100 the width of a human hair.

You'll personally be designing components and assembling gages and machines for customers such as GE Aviation, Toyota, Honda, and Rolls-Royce. As we are small business, you'll have an opportunity to be a key part of a growing organization, working directly with our senior engineers, management, customers, and vendors.

This is a hands-on position. You will be designing components in Autodesk Inventor then assembling them into a complete solution. You'll be running pneumatic and electrical components, and installing sophisticated gaging systems. We are open to a recent graduate or student intern who could join us full-time after graduation. Experience in a machine shop is a big plus! We're located in Fairfield near I-275 and RT-4.

PRINCIPAL DUTIES & RESPONSIBILITIES

1. Designing/Detailing

- Under direction from the senior engineers, design and detail components that will go into our gage assemblies and completed solutions
- Create blueprints for the mechanical components that can be made by our in-house machine shop or sent to regional vendors to be manufactured.
- Specify appropriate components from key vendors, such as Misumi, McMaster-Carr, THK, Keyence, SMC, Parker- Hannifin, etc. working with Purchasing to ensure the right product is ordered at the right price
- Answer questions from vendors and customers, either directly or with support from the senior engineering team
- In CAD, reverse engineer existing customer and in-house components
- Assist in quoting new projects

2. Assembly

- As products arrive, review them for Quality Control. Measure the key features with Micrometers, Calipers, Height Masters, CMMs, etc.
- Assemble the components with the appropriate fasteners, brackets, bushings, etc.
- Address clearance and alignment issues
- Fabricate or modify small parts using a Mill, Lathe, Drill Press, or other standard machine shop tools
- Run and configure all pneumatic tubing, valves, cylinders, and related equipment
- Wire proximity switches, lasers, and other field-mountable equipment
- Install and program gaging and measurement equipment (probes, lasers, vision systems, etc.)
- Mount computers, monitors, and other devices

- Perform Gage Repeatability & Reproducibility Testing
- Write operator and maintenance instruction manuals for gages
- Assist in testing new gaging technologies

3. This job description is not intended to be all inclusive and the employee will also perform other reasonably related business duties as assigned by the immediate supervisor and other management as required.

QUALIFICATIONS:

Education/Experience

- Knowledge and skills at a level normally acquired through the completion of an Associate's or Bachelor's degree in Mechanical Engineering, Mechanical Engineering Technology, Computer Drafting, or related field
- Experience in a machine shop is a big plus
- Experience with AS-9100, ISO-9001, or TS-16949 a plus

Skills/Specialized Knowledge/Abilities

- Knowledge of CAD, Preferably Autodesk Inventor. Solidworks, Catia, or similar is acceptable
- Blueprint reading & creation, GD&T
- Understanding of machining processes and operations
- Ability to prioritize own wide-ranging work load and work independently
- Ability to communicate both verbally and in writing to a wide range of audiences – Management, Customers, Vendors, etc.
- Knowledge of Microsoft Office applications: Word, Excel, PowerPoint, Outlook

WORKING CONDITIONS:

Working Hours/Environment

- Hours are typically 40 per week 8:30 – 5:30; may require additional hours periodically, including evening and weekends depending on business needs
- 70% work typically performed in an indoor office setting
- 30% work typically performed in a machine-shop setting
- May occasionally require a trip to a local customer or vendor, factory setting

Travel

- Minimal – less than 5% of the time