

Welding Process Engineer

Job Summary

We are seeking a results-driven **Welding Process Engineer** to support our expanding operations in **tube and manifold fabrication**. This role will lead to development, qualification, and continuous improvement of welding processes to meet demanding customer and industry requirements. The ideal candidate has a strong foundation in welding technology, hands-on experience with precision fabrication, and a collaborative approach to problem-solving.

Responsibilities

- Develop and optimize welding procedures for stainless steel, carbon steel, and aluminum components, particularly tube and manifold assemblies.
- Define and maintain **Welding Procedure Specifications (WPS)**, **Procedure Qualification Records (PQR)**, and **Welder Performance Qualifications (WPQ)** in compliance with standards like ASME Section IX or AWS D1.1.
- Design and validate welding jigs, fixtures, and tooling to ensure repeatable quality and productivity.
- Support **welder training and certification**, including hands-on evaluation and performance monitoring.
- Provide technical support to welders and production teams for troubleshooting weld defects, distortion, and process variability.
- Collaborate with quality and Non-Destructive Testing (NDT) team to resolve non-conformities using root cause analysis and corrective action planning.
 - Visual Testing (VT): Inspection of welds for surface defects, undercut, misalignment, and porosity using visual tools and gauges.
 - Penetrant Testing (PT): Surface crack detection using dye penetrants on non-porous materials.
 - Radiographic Testing (RT): X-ray or gamma-ray inspection to detect internal weld defects (voids, inclusions, lack of fusion).
 - Ultrasonic Testing (UT): Use of high-frequency sound waves to detect internal flaws in weld joints.
 - Magnetic Particle Testing (MT): Magnetic field-based testing to find surface and near-surface defects in ferromagnetic materials.
- Drive process improvement projects in welding efficiency, cost reduction, defect rate reduction, and cycle time improvement.
- Lead or support welding automation and robotics projects (if applicable).
- Work with suppliers or customers on weld-related technical discussions, inspections, or audits.

Note: The Welding Process Engineer is expected to work closely with NDT technicians and interpret results where applicable to improve weld quality.

Job requirements

- Bachelor's degree in Welding Engineering, or equivalent technical field.
- Minimum 3–5 years of relevant experience in welding process engineering, ideally in tube & manifold manufacturing, vacuum, pressure vessels, or complex assemblies.
- Strong knowledge of welding codes (ASME, AWS) and qualification practices.
- Hands-on experience with TIG, MIG/MAG welding processes; orbital welding, laser welding experience is a plus.
- Familiarity with welding metallurgy, weld symbols, and joint design.
- Proficiency in CAD software (e.g. SolidWorks, NX) for fixture and weldment design.
- Familiarity with Lean Manufacturing and root cause analysis tools (5 Whys, Fishbone diagram, FMEA, etc.).

Preferred Qualifications:

- Has been holding CWI at least 02 years or equivalent certification is plus.
- Experience in a high-mix, low-volume manufacturing environment.
- Experience with ERP systems for managing process routings and documentation.
- Understanding of NDT reports and inspection standards.
- Exposure to welding automation, robotic welding cells, or programmable welding equipment.

Why Choose Us?

Work-Life Balance: Monday - Friday, 8:30 AM - 4:30 PM with a hybrid work option (4 days/month) and employee shuttle service from HCMC.

Competitive Compensation & Benefits:

- Monthly KPI bonus, lucky money, 13th-month bonus, and annual performance bonus tied to company performance.
- Competitive salary aligned with market standards.
- Social insurance contributions based on full salary.
- Pay during probation is similar to the official salary.
- 14 days of annual leave
- Premium healthcare insurance
- Training: Annual budget dedicated to your skill development

Positive Work Environment: Enjoy a friendly and collaborative team atmosphere with fun activities like annual team-building events and a year-end party.

#LI-HN1

Ready to Launch Your Career?

Join Pfeiffer Vacuum+Fab Solutions Vietnam and thrive in a professional and dynamic environment! Submit your CV to Huan.Nguyen@pfeiffer-vacuum.com or contact us for more information.

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