REGIONAL WELDING ENGINEER JOB DESCRIPTION

Location: Southwest, Indiana

**I. General Summary:** Utilize engineering skills to perform Production Engineering functions setup for welding processes within Tier 1 automotive manufacturing plants.  Responsible to provide technical support and monitoring processes to ensure that team objectives are met with regard to delivery of quality parts on time to the customer.  Directs those operations associated with welding and/or frame assembly to ensure they are in compliance with the appropriate contract documents, codes, and other standards to produce a satisfactory product.  Plan, source, manage, and install new in-house welding projects on time and on budget. 

**II. Essential Job Functions:**

* Develop and implement process and production preparation plans for new welding automotive tools, equipment, and products.
* Conduct research to develop and test new fabrication processes and procedures.
* Develop new or modify current welding methods, techniques, and procedures.
* Establish assembly instructions/visual aids to guide production team relating to specifications/processes.
* Evaluate new developments in the automation field for possible application to current welding problems or production processes.
* Assist in development and maintenance of work instructions in compliance with TS16949 requirements.
* Set up automation processes, train manufacturing staff, and hand over completed process to manufacturing teams.
* Coordinate technical personnel in performing inspections to ensure worker’s compliance with established welding procedures, restrictions, and standards.
* Communicate project status to other departments and manufacturing plants.
* Support plant manufacturing and engineering staff during new program launches.
* Manage tool and equipment sourcing.
* Lead or assist with supplier selection process including project quotations and Requests for Quotation (RFQ).
* Create and manage purchase orders for tools and equipment.
* Manage suppliers in the design, construction, and installation of new tools and equipment.
* Improve existing or develop new equipment and tooling including managing Engineering Change Instructions (ECI).
* Perform experimental assembly to evaluate new equipment, techniques, and materials.
* Actively contribute to the machine design from the manufacturing engineer’s perspective and liaise with other engineers in the team during the design and manufacturing process to ensure that the manufacturing process requirements are adhered to.
* Assist with writing equipment specifications for new or modified equipment and/or obtaining agreement on specifications of equipment from plants and other departments.
* Manage all ECIs for tooling and equipment including supporting equipment and tooling work.
* Prepares technical reports as a result of research, development, and preventative maintenance investigations.
* Initiate action to prevent the occurrence/reoccurrence of any nonconformities relating to product, process, and quality system.
* Conduct root cause analysis and problem-solving methods.
* Interface with internal/external customers and lead team members in problem solving with regard to production, customer, and supplier concerns.
* Create and manage project budgets and associated paperwork and recordkeeping related to projects, schedules, Ringi documents, ECIs, drawings, data, etc.

**III. Minimum Qualifications/Requirements**:

**Education:**

* Bachelor’s degree in Mechanical Engineering, Industrial/Welding Technology, or related field required, or equivalent combination of education and relevant experience.

**Experience:**

* Greater than four (4) years of relevant engineering experience required.
* Equipment procurement experience.
* Two or more years of experience in automotive manufacturing engineering preferred.
* Experience in automotive interior components (e.g., injection, assembly, tooling, and other miscellaneous components), managing projects from design to production, is preferred.

**Personal/Technical Skills:**

* Ability to order and track equipment and material for the manufacturing facilities.
* Working knowledge of tool and equipment design, automation, robotics, and/or manufacturing processes.
* Basic understanding and working knowledge of the industrial equipment and manufacturing processes relating to welding.
* Working knowledge of robot programming for welding equipment.
* Ability to troubleshoot and track equipment issues to perform root cause analysis and correct issues with equipment suppliers.
* Basic knowledge of cost structures and/or Process Failure Mode and Effects Analysis (PFMEA) development is preferable.
* Ability to read component, assembly and equipment drawings and have an understanding of Geometric Dimensioning and Tolerancing (GD&T).
* Effective time management skills.
* Ability to work in a team environment.
* Ability to adopt a self-directed work style.
* Strong organization, planning, and analytical skills.
* Ability to compile effective and concise visual reports.
* Able to work in a fast paced, multicultural work environment.
* Familiar with root cause analysis and problem-solving methods.
* Strong communication and interpersonal skills.
* Ability to work well with all levels inside and outside of the organization.
* Must be able to work flexible hours to support production on all shifts during new product launch

**Language Skills:**

* Ability to clearly and concisely communicate complex information in verbal and written English.
* Japanese, Spanish, and/or Portuguese would be helpful.

**Computer/Software:**

* Solid working knowledge and demonstrated experience with Microsoft Office and other computer-based applications (e.g., MS Word, MS PowerPoint, MS Project, Outlook, Internet, etc.).
* Must be proficient in MS Excel, AutoCAD, and 3D Modeling software.
* CATIA experience is preferred.
* PLC experience is a plus.
* Experience with MS Access is preferred.

**IV. Work Environment/Conditions**:

* **Office:**  Open Office Environment, moderate noise level while performing manufacturing automotive production engineering operations.
* **Plant:**Standard automotive plant environment with moderate noise level.  PPE (Personal Protective Equipment) such as safety glasses, steel toe shoes, hearing protection, etc. may be required in engineering, manufacturing, or industrial areas.  Personal attire standards may apply.
* **Travel:**Must be willing to travel up to 30% of the time to our vendors and plants (Mississippi, Indiana, Michigan, Kentucky, Canada, Argentina, Brazil, and Japan).

**Contact:**

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**Headhunter Support Specialist**

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