

**McAlpin Industries, Inc.**  
**Job Description**

**Job:** E-739

**Department:** Development Engineering

**Job Title:** Welding/Manufacturing Engineer

**Reports to:** Development Engineering Manager

**General Job Summary:** This position will be responsible for developing manufacturing processes for key new customer programs. Focus will be on development of automated and manual welding processes along with additional support processes. This development will include process selection, equipment selection, fixture/tooling development, work center layout, and implementation of the processes into production.

**Essential Duties and Responsibilities:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individual with disabilities to perform the essential job functions.

- Develop welding, assembly, and other processes for key customer programs. This includes understanding the costs and timeline required.
- Lead efforts to specify equipment for key processes to include automation of processes.
- Develop tooling and fixturing as needed.
- Develop work center layouts considering lean manufacturing and ergonomic principles
- Execute these development plans within schedule and cost requirements
- Build key process documentation as required.
- Lead efforts and collaborate with manufacturing management in the implementation of new processes
- Lead efforts in any other special projects that may be assigned by the Development Engineering Manager.
- Other duties as assigned by manager

**Supervisory Responsibilities:**

None

**Education**

Bachelor's degree (B.S.) in engineering or equivalent combination of education and experience.

**Experience**

5-7 years related experience or training  
Experience in welding process development  
Experience in use of robotics.

**Computer Skills:**

To perform this job successfully, an individual should have knowledge and proficiency in the use of Microsoft Word, Microsoft Excel, Outlook, and Solidworks. Experience with robotic programming.

**Other Requirements:**

To perform this job successfully, an individual must have the ability to read blueprints, knowledge of business practices/protocols, and be able to maintain confidential information. Demonstration of previous work that shows the ability to perform to McAlpin Industries Core Values is critical for success.

**Language Skills:**

High Skills: Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

**Mathematical Skills:**

High Skills: Ability to work with mathematical concepts such as probability and statistical inference, and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.

**Reasoning Ability:**

High Skills: Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form.

**Physical Demands:**

The physical demands described here are representative of those that must be met by an Associate to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job the Associate is regularly required to walk, sit, use of computer keyboard, maneuver through the office and factory, use a 10-key calculator, and communicate with customer and management in person, by email or via telephone, and the Associate is occasionally required to lift and/or move up to 50 pounds.

**PPE:**

Must wear safety glasses with side shields and steel toe/composite shoes while on the production floor. Gloves may be required if handling parts.

**Work Environment:**

The work environment characteristics described here are representative of those an Associate encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform within the described work environment.