EWI Position Advertisement

Position: Mechanical Design Engineer

Location: Columbus, OH

Department: 43 – Resistance and Solid-State Welding

Supervisor: Nick Kapustka, Engineering Manager

OPPORTUNITY:

EWI is a world leader in developing and deploying new technologies that enable companies to bridge the gap between R&D and manufacturing implementation. EWI Associates are passionate about identifying out-of-the-box solutions that provide a long-term competitive advantage for our clients. Our clients tell us we are a valuable extension and complement to their innovation, engineering, and manufacturing teams. If you enjoy working with customers and solving difficult, technical problems, EWI is the place for you.

We are currently looking to fill a mechanical engineering position that resides within the Resistance and Solid-State Welding Group. The primary function of this role is to serve both internal and external customers’ design needs related to a broad range of project applications across multiple technologies and industries. EWI’s primary mission is to serve customers with welding and materials joining needs. The mechanical design engineer supports those activities through designing weld and test fixtures, test specimens, equipment modifications, customer product designs, non-production hardware, or any combination thereof. This role requires knowledge of various welding disciplines, controls, and automation, or the ability to quickly learn.

ESSENTIAL FUNCTIONS:

• Effectively communicate with internal and external customers to explore and understand project objectives and design requirements
• Apply mechanical aptitude to deliver unique, cost-effective, and practical solutions suitable for a research and development environment
• Translate customer design needs into project deliverables, which may include SolidWorks models, drawings, and/or hardware
• Work with external vendors and machine shops to source components
• Assemble fabricated components in a lab environment and take ownership through testing and verification of functionality
• Work closely with various technology teams to gain a thorough understanding of welding and joining processes to compliment design ideation
• Balance multiple projects simultaneously while maintaining accountability and delivering on commitments
• Demonstrate a working knowledge of machining, hydraulics, pneumatics, electrical, and materials
• Expand technical expertise by assisting team members and technologies though research and lab work
• Execute billable project work according to project scope, deliverables, and overall customer expectations
• Provide design and cost input for proposal development
• Follow-up and interact with customers on reactive sales transactions; initiate the reactive sales process without guidance
• Interact with customer via “inquiry” process to explore sales opportunities
• Prepare PowerPoint reports that document project results
EDUCATION:

- B.S. in Mechanical Engineering or related area of study

MINIMUM QUALIFICATIONS:

- Seven (7) or more years’ experience in a mechanical design role
- Proficiency with solid-modeling software (SolidWorks preferred)
- Machining experience or demonstrated knowledge of machining techniques and best practices
- Excellent verbal and written communication skills

ADDITIONAL QUALIFICATIONS:

- Experience designing in a Research and Development environment
- Knowledge/experience with welding processes
- Basic SolidWorks FEA analysis
- Basic understanding of machine design
- Experience with weldments and low volume production
- Experience with 2D drafting and GD&T concepts

PHYSICAL REQUIREMENTS:

- Office environment and laboratory/light production floor with ventilation, climate-control system, moderate lighting, and moderate noise level
- Use finger and hand dexterity to type, adjust, move, handle, perform, operate, install, attach, remove, apply, grasp, grip, manipulate, and measure
- Use vision to see, analyze, and adjust
- Frequently move, transport, rotate, reach, pull, twist, adjust position, push, stand, stoop, bend and crouch; and
- Lift up to 50 pounds on occasion

EOE/M/F/Disability/Protected Veteran Status

Accommodations
Indians who need reasonable accommodations under the ADA in order to participate in the search and/or application process should contact Human Resources at (614) 688-5000.

How to apply

Apply online at https://ewi.org/who-we-are/careers