

Advanced Welding Technology Instructor

Mahoning County Career & Technical Center (MCCTC) is seeking an experienced Advanced Welding professional to serve as an Instructor for our Advanced Welding Technology program.

This is a full-time, high school teaching position in a one-instructor program, where the instructor will lead a two-year, hands-on program for 11th and 12th grade students focused on structural and pipe welding, fabrication, and robotic/automated welding. The instructor will provide both classroom and lab-based instruction that prepares students for entry-level employment, apprenticeships, and post-secondary training in welding, metal fabrication, and advanced manufacturing. The program will emphasize multiple welding processes (SMAW, GMAW, FCAW, GTAW), blueprint reading, layout and fabrication, safety, and the setup, operation, and basic programming of industrial robotic welding systems using equipment similar to what is found in modern manufacturing facilities.

This position is ideal for an experienced professional who wants to give back to the trade by training the next generation, while working in a modern lab environment with strong industry and community support.

Schedule & Contract

- Target Start Date: August 2026
- Monday - Friday, 7:30 a.m. – 3:00 p.m.
- 184-day school year contract
- Summer break and holiday breaks off
- Occasional evening or weekend commitments (open houses, advisory committee meetings, student competitions, and professional development) may be required.

Qualifications

Minimum Qualifications

- Industry Experience - Minimum of five (5) years full-time, recent experience in welding and metal fabrication (structural, pipe, or manufacturing), with at least two (2) of the last five years in active field work, shop, or plant environment.
- Demonstrated proficiency in multiple welding processes (SMAW, GMAW, FCAW, GTAW) and in reading/interpreting blueprints and welding symbols.
- Experience with robotic welding systems (e.g., Lincoln, FANUC, or similar), including operation, basic programming, setup, troubleshooting, and safety.
- Ability to obtain an Ohio Career-Technical Educator License in the appropriate career field (Manufacturing, Welding/Joining, or related Trade & Industry area) through the Ohio Department of Education & Workforce. MCCTC will support the selected candidate through the licensure process.
- High school diploma or GED required; completion of a formal apprenticeship, journeyman status, associate degree in welding or manufacturing technology, or equivalent combination of training and experience strongly preferred.

- Strong communication skills and the ability to work effectively with high school students and staff in a team-oriented environment.
- Ability to integrate technology into instruction (robot simulation software, virtual welding systems, LMS, etc.).
- Ability to pass all required BCI/FBI background checks and pre-employment drug screening, and meet all other employment requirements as mandated by state law and MCCTC policy.

Preferred Qualifications

- AWS Certified Welding Educator (CWE), Certified Welding Inspector (CWI), or similar professional credentials.
- Experience teaching, mentoring, or training apprentices, new hires, or students in a shop, plant, or classroom setting.
- Experience with:
 - CNC or robotic welding cells
 - Laser welding
 - Offline programming and simulation
 - Lean manufacturing or advanced manufacturing processes
- Participation in industry organizations (AWS, SME, local trade associations) and familiarity with current codes and standards.
- Robotic and AI experience is preferred but not required. An open mind and willingness to learn is required.

Teaching & Licensure

- This is an Ohio teaching position
- Ohio teaching license not required at hire
- Candidate must be eligible to become licensed
- MCCTC will assist and support the instructor through the teacher licensure process

Essential Duties and Responsibilities

The Instructor will. . .

Instruction & Curriculum

- Teach theory and hands-on skills in:
 - Shielded Metal Arc Welding (SMAW)
 - Gas Metal Arc Welding (GMAW/MIG)
 - Flux-Cored Arc Welding (FCAW)
 - Gas Tungsten Arc Welding (GTAW/TIG)
 - Plasma cutting, and basic fabrication processes
- Provide instruction in:
 - Blueprint reading, welding symbols, and basic weld inspection
 - Layout and fabrication of structural components and/or pipe
 - Proper use of hand tools, power tools, and welding/fabrication equipment

- Develop and deliver curriculum for robotic welding systems, including:
 - Safe operation of welding cobots and robotic cells
 - Basic robot setup and program modification
 - Loading and running welding programs and performing visual inspection of robotic welds
- Use the approved course of study and Ohio Career-Technical Content Standards for manufacturing/welding to plan lessons, projects, and assessments.
- Incorporate employability skills (attendance, teamwork, communication, professionalism) into daily instruction.
- Maintain a safe, clean, well-organized lab that reflects current industry practices, including proper storage and maintenance of equipment, consumables, and PPE.

Student Assessment & Credentials

- Design and administer written tests, performance tests, weld tests, and project rubrics to monitor student progress and mastery of competencies.
- Prepare students for industry-recognized credentials, which may include (as approved by MCCTC):
 - AWS (American Welding Society) entry-level or skill-based certifications where available
 - OSHA 10-Hour (Construction or General Industry)
 - Robotic operation/programming certificates aligned with your chosen platform (e.g., FANUC CERT / Lincoln Electric robotic welding education cell).
- Maintain accurate records of grades, credentials, attendance, and other required data in accordance with district and state requirements.

Program & Industry Collaboration

- Establish and maintain strong relationships with local welding, fabrication, and advanced manufacturing employers to support:
 - Advisory committee participation
 - Equipment and material donations
 - Guest speakers and plant tours
 - Work-based learning and placement of students into jobs or apprenticeships
- Assist with work-based learning activities such as job shadowing, internships, pre-apprenticeships, and senior placement.
- Support and advise a relevant student organization (e.g., SkillsUSA) including student competitions, leadership activities, and community projects where appropriate.

Professional Responsibilities

- Collaborate with academic teachers, counselors, special education staff, and administration to support all learners, including those with IEPs/504 plans.
 - Communicate regularly with parents/guardians regarding student progress, behavior, and opportunities in the welding and manufacturing trades.
 - Participate in staff meetings, in-service days, professional development, and advisory committee meetings as required.
 - Follow all MCCTC policies, safety procedures, and state/federal regulations related to welding, robotics, and school operations.
-

Working Conditions

- Instruction is delivered in a welding lab and fabrication shop environment with exposure to heat, noise, fumes, and sparks; strict adherence to PPE and safety protocols is required.
 - Must be able to lift and move materials and equipment, demonstrate welding tasks, and stand for extended periods.
-

Compensation & Benefits

- Competitive salary
 - Full benefits package
 - College tuition reimbursement
 - Excellent work-life balance
-

Why MCCTC?

MCCTC is a forward-thinking, proactive school district that:

- Strongly supports its instructors
 - Provides autonomy to develop and lead the program
 - Values industry experience and hands-on expertise
 - Is committed to workforce development and student success
-

Application Process

Interested applicants should email the following to John Zehentbauer, Superintendent, at jobs@mahoningctc.com

- letter of interest
- current resume detailing welding, fabrication, and robotic/automation experience
- 3 professional references, including contact information
- copy of relevant licenses/certifications (AWS, OSHA, robotic training, etc.)

Questions can be directed to John Zehentbauer, Superintendent, at (330) 729-4001

Applications will be accepted until the position is filled.

Equal Opportunity & Workplace Culture Statement

Mahoning County Career & Technical Center is an Equal Opportunity Employer and does not discriminate on the basis of race, color, national origin, sex, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, or any other characteristic protected by federal, state, or local law.

MCCTC is committed to fostering a safe, respectful, and inclusive learning and working environment where all employees and students are valued, supported, and provided equitable opportunities for success. We believe a diverse and inclusive workforce strengthens our organization and enhances the educational experience for all.