

**Pellissippi State Technical Community College**  
**POSITION DESCRIPTION**

**EMPLOYEE NAME:** \_\_\_\_\_

**DATE COMPLETED:** November 1, 2015

**TITLE:** Welding Faculty Member

**REPORTING SUPERVISOR:** \_\_\_\_\_

**PREPARED BY:** \_\_\_\_\_

**APPROVED BY:** \_\_\_\_\_

**WORK SCHEDULE:** \_\_\_\_\_

**JOB OBJECTIVE:**

Instructor/Assistant Professor - salary commensurate with experience. The successful candidate will be expected to teach Associate of Applied Science-level Welding classes and laboratories, create instructional materials and laboratory experiences, promote the Welding program through local, regional and national engagement, participate in program assessment activities related to accreditation, certification and grant parameters. The successful candidate will perform student advising, and other departmental service. This position requires experience in all areas of welding and to be able to perform all tasks related to the welding industry to include the following: shop-safety, OSHA and HAZMAT requirements, oxy-acetylene welding, and flame cutting, soldering and brazing, shielded metal arc welding in all positions, GMAW and GTAW (MIG and TIG) welding, pipe welding in all positions, blueprint reading, template, preparation and welding, fabrication, and layout procedures using different types of metals, welding electrodes and fillers. The successful candidate must possess teaching skills and be able to teach the program mentioned above, as well as to be able to perform the following tasks: curriculum development and evaluation, program development and evaluation, technical writing, recruitment, student advising, transcript and work experience evaluation, student registration, advisory committee engagement, evaluation and preparation of articulation agreements and prior learning assessments. The successful candidate will perform repairs and periodic maintenance on equipment assigned to the Welding program.

**ESSENTIAL JOB FUNCTIONS:**

- 50% A. Provide instruction and training in Welding Technology covering several welding processes. Instruction will cover, but is not limited to, the following welding processes: Shielded Metal Arc Welding (SMAW Plate and Pipe), Flux Core Arc Welding (FCAW Plate and Pipe), Gas Metal Arc Welding (GMAW Plate and Pipe), Gas Tungsten Arc Welding (GTAW Plate and Pipe), Oxy-fuel cutting, Plasma Arc cutting, blueprint reading, mathematics for welding, welding inspection and welding metallurgy. Assignments will include preparation for AWS certification.)
- 10% B. Develop new course materials or courses as required to maintain program currency in emerging technologies in the field of Welding and the development of course work associated with it.
- 10% C. Advise students. Serve on internal and external committees for the College and the community at large. Work with Business and Community Services department to develop workforce solutions within the area of welding.
- 10% D. Maintain knowledge of emerging technologies and processes relative to welding classes.
- 10% E. Work with Program Coordinator, faculty, staff, and local industries and organizations to continually refine and improve related curricula. Help write grant proposals related to program goals and objectives as well as participate in grant activities.
- 5% F. Share responsibility for day-to-day operation and routine upkeep of classrooms, labs, and equipment.
- 5% G. Recruitment of new students. Along with other duties as assigned.

*Note: the College reserves the right to change or reassign job duties, or combine positions at any time.*

**NON-ESSENTIAL FUNCTIONS:** None

**JOB STANDARDS:**

- Associates degree in Welding, Metals Science (Metallurgy, Composite Science, etc.), or Welding Technology, Industrial Education, Industrial Arts, or Industrial Technology or related field from a regionally accredited college or university with minimum of five (5) years full-time work experience in various welding processes **OR** Bachelor's degree in Welding, Metals Science (Metallurgy, Composite Science, etc.), or Welding Technology, Industrial Education, Industrial Arts, or Industrial Technology or related field from a regionally accredited college or university and three (3) years full-time work experience in various welding processes.
- Teaching experience at secondary or post-secondary level or experience as a trainer specifically in welding applications.
- Be a Certified Welding Educator (CWE) or a Certified Welding Inspector (CWI) or AWS certified or have a nationally recognized certification in Welding, or have the ability to get certified within 1 year of employment.
- Have experience in the following processes: GTAW, GMAW-steel and aluminum, SMAW and FCAW.

### **CRITICAL SKILLS/EXPERTISE/EXPERIENCE:**

Broad, current industry knowledge and practical applied experience in the field of Welding are required along with the ability to translate those knowledge and skill sets into a meaningful learning experience in a classroom or laboratory setting. A willingness to participate as a team member to realize the overall goals of the Welding Program and the grant with which the Welding program is being supported, as well as to prepare students for the workplace and lifelong learning opportunities. A strong desire to work with students and to help them achieve success is required.

### **JOB LOCATION:**

Teaching may include classes at Blount County Campus, Strawberry Plains Campus and the Byington-Solway campus during daytime hours, evening hours or online format. Travel within our two-county service area may be required. Teaching assignment may include day, evening, on-line, hybrid, summer and/or off campus classes.

### **EQUIPMENT:**

Welding equipment to include that required for executing Shielded Metal Arc Welding (SMAW Plate and Pipe), Flux Core Arc Welding (FCAW Plate and Pipe), Gas Metal Arc Welding (GMAW Plate and Pipe), Gas Tungsten Arc Welding (GTAW Plate and Pipe). In addition, to actual welding equipment, welding simulators will be used.

This workforce solution was funded by a grant awarded under the US Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. The institution that created it copyrights this solution. Internal use, by an organization and/or personal use by an individual or non-commercial purpose, is permissible. All other uses require the prior authorization of the copyright owner.

