

## **THE UNIVERSITY OF WYOMING JOB DESCRIPTION**

This is a description of a staff position at the University of Wyoming not a job opening announcement. Look for current job openings at the following link: [UW Human Resources](#).

*The following statements are intended to describe the general nature and level of work being performed. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified.*

**Title:** WELDER/PLUMBER/PIPEFITTER

**Reports To:** Designated Supervisor

**UW Job Code:** 6227

**UW Job Family:** 62 - Crafts/Trades

**SOC Code:** 51-4121

**FLSA:** Non-exempt

**Pay Grade:** 22

**Date:** 4-1-95 (revised 7-1-02; 7-19-02; 7-1-04; 7-1-06; 7-1-08; 1-12-21)

### **JOB PURPOSE:**

Under limited supervision, perform Journeyman-level arc, oxy-acetylene, and inert gas welding to fabricate and repair a wide variety of University piping systems including steam and condensate, as well as University equipment; perform Journeyman-level plumbing work to repair University steam, condensate, water, waste and air/gas piping systems.

### **ESSENTIAL DUTIES AND RESPONSIBILITIES:**

- Follow safety protocol for all forms of metal welding and shaping.
- Read and interpret blueprints, sketched layouts, and work orders for welding work according to specifications.
- Determine materials needed to complete work projects; locate and order materials from warehouse or supplier.
- Perform proper joint preparation, then weld or repair broken welds on metal pipe and utility systems utilizing arc or inert gas-shielded or oxy-acetylene or brazing welding equipment following appropriate techniques.
- Perform thermal cutting and grinding, and fabrication of metal.
- Repair broken or cracked metal piping and equipment.
- Maintain, troubleshoot and repair all plumbing systems on campus and be able to modify specialized piping and equipment such as Fire Protection, Acid Waste, and Research Equipment.
- Perform specialized plumbing work including cutting passageways, bending and joining pipe, inspecting gas heating and water systems, repairing and rebuilding pumps.

## **SUPPLEMENTAL FUNCTIONS:**

- Provide on-call Plumbing Service for 24-hour, 365-day coverage.
- Perform special plumbing duties as required.
- Recognize and report hazardous materials including asbestos, lead and mercury.
- Other duties as assigned.

## **COMPETENCIES:**

- Attention to Detail
- Work Prioritization & Management
- Independence
- Technical/Professional Knowledge
- Judgment
- Work Standards

## **MINIMUM QUALIFICATIONS:**

Education:

- **High School Diploma or GED**
- **Completion of a U.S. Department of Labor approved 4-Year Plumbing Apprenticeship Program**

Experience:

- **4 additional years of related work experience as a Journeyman Plumber to meet the requirements for Master-level status.**
- **5 years of welding or pipe fitting experience.**

Required licensure, certification, registration or other requirements:

- **Master-level plumber; current license required.**
- **Pipe Welding: AWS (API) 1104 Welding of Pipelines & Related Facilities. Certified in Flux submerged arc or inert gas shielded, vertical position - flat, horizontal, vertical, and overhead. Current certification required.**
- **Structural Welding: Certified in Flux submerged arch or inert gas shielded, flat, vertical and overhead position. Current certificate required.**
- **Valid driver's license**

## **KNOWLEDGE, SKILLS, AND ABILITIES:**

Knowledge of:

- Occupational hazards and safety precautions of the trade.
- Current trade methods, materials and equipment.
- Applicable state and federal regulations.

- Maintenance and repair of basic and routine steam, water, drainage, utility, heating systems, and natural gas distribution systems.
- Maintenance and repair of welding equipment.
- Shop mathematics and metal properties.
- Basic and routine metallurgy.
- Arc, oxy-acetylene and inert gas welding.

Skills and Abilities to:

- Perform a variety of arc, oxy-acetylene and inert gas welding to fabricate items, effect repairs on equipment or construct structurally sound repairs.
- Read, prepare and interpret construction drawings, sketches, diagrams, blueprints and specifications.
- Read, understand and follow safety procedures.
- Communicate effectively both orally and in writing.
- Understand and carry out oral and written instructions.
- Select appropriate materials based on application and amounts required.
- Install a wide variety of plumbing fixtures and equipment.
- Diagnose, isolate, and repair steam, water, drainage, utility, heating systems, and natural gas distribution systems.
- Basic knowledge of steam utility systems.
- Measure, cut, thread, and install a wide variety of plumbing fixtures and equipment.
- Inspect, diagnose, maintain, and repair, a wide variety of systems, equipment, and fixtures.
- Use tools applicable to the trade.
- Perform safety inspections on a variety of equipment.
- Move objects weighing up to 100 pounds.
- Work as a team member and foster a cooperative work environment.

**WORKING CONDITIONS:**

Industrial environment; regularly exposed to mechanical hazards, electrical hazards, and hazards associated with power and manual tools; regularly subject to dust, fumes, high-pressure steam, high temperatures, and confined spaces. Must be able to work in confined quarters for extended periods as would be required to perform work in the campus utility tunnel system.

Authorized by Classification/Compensation, Human Resources

Employees may be requested to perform job-related tasks other than those specifically presented in this description. Participating in the University's hazardous waste minimization program is part of the job of each employee who uses (or may come in contact with) hazardous materials. Fair Labor Standards Act

(exempt/non-exempt) is designated by position. University of Wyoming actively supports Americans with Disabilities Act and will consider reasonable accommodations.