

## **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: PLANT OPERATOR**

**Reports To:** Designated Supervisor

**UW Job Code:** 6235

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

**SOC Code:** 51-8013

**FLSA:** Non-exempt

**Pay Grade:** 22

**Date:** 11-1-98 (revised 7-1-02; 7-19-02; 7-1-04)

### **JOB PURPOSE:**

Designated Essential Employee covering the 24/7 operation of campus utilities, where the employee will operate, inspect, and maintain primary and auxiliary equipment and systems at the Central Energy Plant and West Campus Energy Plant to provide heating and cooling needs to campus buildings.

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

- Operate multi-fuel, high pressure, high temperature boilers, liquid centrifugal chiller units, and other equipment in the Central Energy Plant. Operate and remotely monitor natural gas condensing boilers and Thermal Energy Storage Tank equipment at the West Campus Energy Plant.
- Train less experienced operators in the operation and maintenance of boilers and chillers under normal and emergency conditions.
- Conduct required water and pollution control tests to maintain plant, equipment and state standards.
- Monitor gauges and equipment; record data noting problems with equipment or system conditions. Take necessary corrective action when needed.
- Confer with other operators regarding current operation information and problems.
- Perform scheduled and emergency maintenance and repairs.
- Restore plant functions to normal, following shut downs or power failures.

### **SUPPLEMENTAL FUNCTIONS:**

- Receive and relay information to proper personnel on after-hour calls.
- Monitor and record coal shipment for quality control.
- Operate and test backup electrical generation systems.
- Maintain designated area in a clean and safe operating condition.

- Other duties as assigned.

### **COMPETENCIES:**

- Analysis/Problem Identification
- Attention to Detail
- Technical/Professional Knowledge
- Communication
- Safety Awareness
- Stress Tolerance
- Work Standards

### **MINIMUM QUALIFICATIONS:**

Education: **Associate's degree**

Experience: **2 years work-related experience**

Required licensure, certification, registration or other requirements:

- Respirator qualification within one month of hire.
- Possess a valid driver's license.

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

Knowledge of:

- Mechanical principles, concepts and theories.
- Electrical principles, concepts and theories.
- Plumbing, utilities, distribution systems, controls, HVAC systems, including maintenance, troubleshooting and repair.
- Construction drawings, blueprints, sketches, diagrams, and specifications.
- Occupational hazards and safety precautions of the trade.
- Current trade methods, materials, surface preparation and equipment operation.
- University, state and federal regulations, statutes and ordinances.
- Operation and maintenance within an energy plant system of steam generating units, compressors, turbines, auxiliary equipment, chilled water systems and building electrical generators.
- Data recording procedures for distinguishing equipment or system problems.
- Water and pollution control testing.
- Generator operation.
- Pressure testing on high pressure steam pipes.
- Training and functional supervision methods, techniques and practices.
- Thermal Energy Storage Tank operation.

Skills and Abilities to:

- Operate multi-fuel, high pressure, high temperature boilers, liquid centrifugal chiller units, and support systems within an energy plant operation.

- Remotely monitor and operate condensing boilers and thermal energy storage systems.
- Monitor gauges and equipment and make appropriate adjustments or take corrective action.
- Train in the operation and maintenance of boilers and chillers under normal and emergency conditions.
- Read, interpret, and work from basic and routine sketches, blueprints, specifications, and construction drawings.
- Understand and carry out oral and written instructions.
- Work under limited supervision.
- Communicate clearly and concisely.
- Operate and monitor plant equipment, systems, instrumentation and control.
- Test systems, log results, locate and resolve problems.
- Record data effectively to locate and resolve problem areas effectively.
- Maintain and repair energy plant equipment and systems including emergency repairs and bringing systems online.
- Safely and efficiently operate and use associated tools and equipment.
- Move objects weighing 50 pounds regularly.
- Work in elevated positions, or confined spaces.
- Monitor operating conditions by reading gauges, meters and automatic recording devices.
- Inspect systems in use in the Central Energy Plant and West Campus Energy Plant.
- Work as a team member and foster a cooperative work environment.

### **WORKING CONDITIONS:**

Energy plant environment; regular exposure to heat, dust, noise, heights, and confined spaces; regular exposure to electrical, mechanical, fire, or chemical hazards, and hazards associated with the use of energy plant boiler equipment and power/manual tools. Occasional travel by vehicle to West Campus Satellite Plant.

### **DISTINGUISHING FEATURES:**

**Auxiliary Operator:** Works under general supervision performing Auxiliary Operator duties in the operation and maintenance of boilers and chiller equipment and systems within the Central Energy Plant and West Campus Energy Plant, conducts water and pollution tests, records data to locate and resolve problems, and conducts generator tests.

**Plant Operator:** Works under limited supervision performing the duties of Plant Operator, and as the senior operator functionally supervises and trains the junior Auxiliary Operators in the operation and maintenance of boilers and chiller equipment and support systems.

**Mechanic Operator:** Works under limited supervision performing power plant equipment and support system maintenance; including air compressor maintenance and rebuilds, chiller and cooling tower, thermal energy storage system, water purification system, coal conveying system, fan, turbine and pump maintenance. Perform duties of Auxiliary Operator or Plant Operator as directed.

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.