

## **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: TECHNICIAN/OPERATOR (CENTRAL ENERGY PLANT)**

**Reports To:** Designated Supervisor

**UW Job Code:** 6231

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

**SOC Code:** 51-8013

**FLSA:** Non-exempt

**Pay Grade:** 22

**Date:** 6-1-97 (revised 7-1-02; 7-19-02; 7-1-04)

**JOB PURPOSE:**

Maintain, repair, and calibrate specialized plant control equipment and systems to ensure uninterrupted operation of the Central Energy Plant.

**ESSENTIAL DUTIES AND RESPONSIBILITIES:**

- Maintain, repair, install, and calibrate specialized electronic and pneumatic control systems related to steam generating units, pneumatic and mechanical conveying, unloading equipment, hermetic centrifugal liquid chillers, bag-house unit, liquid CO<sub>2</sub> fire suppression equipment, air compressors and equipment or systems failure alarms or safety shutdowns.
- Schedule and coordinate maintenance and repair of control systems and equipment with Central Energy Plant personnel.
- Read, review, interpret and update blueprints, electrical diagrams and control schematics. Maintain records of maintenance and repairs to plant control systems.
- Establish written control operation procedures; instruct Plant personnel of same when required. Perform functions of Operator I or Operator II at the Central Energy Plant, as required.

**SUPPLEMENTAL FUNCTIONS:**

- Submit requests for purchase of equipment and spare parts related to control systems.
- Maintain file of maintenance, operation, and parts manuals.
- Assist in plant operation under emergency conditions, as requested.

**COMPETENCIES:**

- Technical/Professional Knowledge
- Strategic Planning
- Integrity

- Work Standards
- Quantity of Work
- Individual Leadership

## **MINIMUM QUALIFICATIONS:**

Education: **Associate's degree**

Experience: **4 years work-related plant experience including demonstrated knowledge of technical controls systems and their operation with progressively responsible experience of 2 years as Auxiliary Operator, CEP and 2 years as Operator (CEP) at the University of Wyoming.**

Required licensure, certification, registration or other requirements: **None**

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

Knowledge of:

- Occupational hazards and safety precautions of the trade.
- Current trade methods, materials, preparation, equipment, maintenance and repair principles and procedures.
- Electrical codes applicable to the Central Energy Plant.
- University, state and federal regulations, statutes and ordinances.
- Operation and maintenance within a power 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 tests.
- Generator usage.
- Pressure testing on high-pressure steam pipes.
- Training and functional supervision methods and techniques.
- Mechanical power plant equipment, instrumentation and system operation and repair principles and practices.
- Establishing operational power plant procedures.
- Computer control systems and software applications.
- Instrument calibration standards and tolerances.

Skills and Abilities to:

- Operate multi-fuel, high pressure, high-temperature boilers, liquid centrifugal chiller units, and equipment within a power plant operation.
- 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.
- Communicate clearly and concisely.
- Operate and monitor Plant equipment, systems, instrumentation and controls.
- Maintain, repair and calibrate specialized power plant electronic and pneumatic control equipment and systems.
- Schedule and coordinate maintenance and repair of control systems and equipment with Plant personnel.
- Maintain and repair power plant equipment and systems including emergency repairs and assisting in bringing systems back online.
- Move objects weighing 50 pounds regularly.
- Work in elevated positions.
- Monitor operating conditions by reading gauges, meters and automatic recording devices.
- Inspect systems in use in the Central Energy Plant.
- Operate computer control systems, monitor gauges, and react appropriately to changes to keep system within industry standards.

### **WORKING CONDITIONS:**

Power Plant environment; exposure to heat, dust, noise, heights, and confined spaces; subject to mechanical, chemical and hazards associated with use of equipment and power/manual tools.

### **DISTINGUISHING FEATURES:**

**Auxiliary Operator:** Works under general supervision performing Operator I duties in the operation and maintenance of boilers and chiller equipment and systems within the Central 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 Operator I, and as the lead Operator functionally supervises and trains the less senior Operators in the operation and maintenance of boilers and chiller equipment and systems.

**Technician/Operator (Central Energy Plant):** Works under limited supervision and provides project supervision while scheduling and coordinating maintenance and repairs, maintaining, repairing, and calibrating specialized electronic and pneumatic Central Energy Plant control systems and equipment to ensure uninterrupted operation. This position performs the functions of Operator I or Operator II as required.

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.