

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: MECHANIC/OPERATOR ENERGY PRODUCTION

Reports To: Designated Supervisor

UW Job Code: 6213

UW Job Family: 62 - Crafts/Trades

SOC Code: 51-8021

FLSA: Non-exempt

Pay Grade: 22

Date: 9-1-96 (revised 7-1-02; 7-19-02; 7-1-04; 7-1-22)

JOB PURPOSE:

Maintenance and repair of energy plant equipment to meet heating, air-conditioning and compressed air needs of the university campus. Act as Plant Operator or Auxiliary Operator for the Central Energy Plant and West Campus Energy Plant, as directed (see other job descriptions for details of job tasks/duties).

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Maintain, repair and rebuild energy plant equipment and systems; including coal and gas-fired boilers and their computerized control systems, coal and ash conveyance systems, water purification systems, diesel generators, air compressors, steam turbines, various types of pumps and fans, chillers, cooling towers, heat exchangers and a thermal energy storage system.
- Perform functions of Plant Operator or Auxiliary Operator, as directed, usually filling in for employees who are out on vacation/sick or other leave (see appropriate job descriptions for job tasks/duties).
- Train less experienced mechanics and operators in the operation and maintenance of boilers and chillers under normal and emergency conditions.

SUPPLEMENTAL FUNCTIONS:

- Respond to after-hours emergency call-outs for equipment repair or Plant Operator / Auxiliary Operator shift coverage.
- Assist in the design and implementation of mechanical alterations to new and existing equipment.
- Occasional assignment to shift work.
- Maintain designated area in clean and safe operating conditions.
- Other duties as assigned.

COMPETENCIES:

- Technical/Professional Knowledge
- Analysis/Problem Identification
- Work Standards
- Attention to Detail
- Initiative
- Communication
- Adaptability

MINIMUM QUALIFICATIONS:

Education: **Vocational School, On-the-Job Experience, or 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 and electronic principles, concepts and theories.
- Construction drawings, blueprints, sketches, diagrams, and specifications.
- Occupational hazards and safety precautions of the trade.
- Current trade methods, materials, surface preparation, equipment operation, maintenance and repair principles and procedures.
- University, state and federal regulations, statutes and ordinances.
- Routine operations within an energy plant.
- Operation, maintenance and repair of boilers, diesel generators, air compressors and blowers, steam turbines, various types of pumps and fans, chillers, cooling towers, heat exchangers, thermal energy storage and auxiliary equipment.
- Advanced troubleshooting techniques.
- Water and pollution control testing.
- Training and functional supervision methods, techniques and practices.

Skills and Abilities to:

- Read, interpret and work from basic and routine sketches, blueprints, specifications, and construction drawings.
- Read, understand, follow and enforce safety procedures.
- Understand and carry out oral and written instructions.
- Work under limited supervision.
- Communicate clearly and concisely.
- Communicate effectively both orally and in writing.
- Move objects weighing 50 pounds regularly.

- Work in elevated positions, or confined spaces.
- Maintain, repair and rebuild energy plant equipment and systems.
- Perform functions of Plant Operator or Auxiliary Operator.
- Maintain effective supervisory relationships.
- Safely and efficiently operate and use associated tools and equipment.
- Operate Central Energy Plant and West Campus Energy Plant systems and equipment.
- 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. Routine 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.