

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: ENERGY PRODUCTION, SENIOR

Reports To: Designated Supervisor

UW Job Code: 6214

UW Job Family: 62 - Crafts/Trades

SOC Code: 51-8021

FLSA: Non-exempt

Pay Grade: 23

Date: 6-1-17 (revised 7-1-22)

JOB PURPOSE:

Lead development and performance of maintenance and repair tasks in support of energy plant and modular boiler plant operations. Provide functional leadership and training of personnel performing energy plant and modular power plant equipment and systems maintenance. Assume the duties and responsibilities of the Plant Operator or Auxiliary Operator as directed. Assume the duties of the Energy Production Manager in their absence.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Perform maintenance and repair of energy plant equipment and systems including coal and gas-fired boilers and their computerized control systems, bag filtration 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.
- Functionally supervise energy plant personnel.
- Develop and maintain a database of maintenance and repairs.
- Perform functions of the manager in their absence, as well as Auxiliary Operator or Plant Operator at the Central Energy Plant and West Campus Energy Plant as required (see associated Job Description).

SUPPLEMENTAL FUNCTIONS:

- Respond to after-hours emergency call-outs for equipment repair or Plant Operator / Auxiliary Operator shift coverage.
- Review, interpret, and update blueprints, electrical diagrams and control schematics.
- Submit requests for purchase of equipment and spare parts.
- Maintain file of maintenance, operation, and parts manuals.

- Maintain necessary on-site emergency repair parts inventory.
- Other duties as assigned.

COMPETENCIES:

- Individual Leadership
- Technical/Professional Knowledge
- Work Standards
- Communication
- Attention to Detail
- Delegating Responsibility
- Stress Tolerance

MINIMUM QUALIFICATIONS:

Education: **Vocational School, On-the-Job Experience, or Associate's Degree**

Experience: **6 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:

- Advanced construction drawings, blueprints, sketches, diagrams, and specifications.
- Functional supervision methods, techniques and practices.
- Mechanical principles, concepts and theories.
- Electrical and electronic principles, concepts and theories.
- Plumbing, utilities, distribution systems, controls, HVAC systems, including maintenance, troubleshooting and repair.
- Operation, maintenance and repair of an energy plant including boilers, soot blowers, coal and ash handling systems, fans, diesel generators, electrical distribution equipment, air compressors, control equipment, steam turbines, chillers, fans, water treatment systems, thermal energy storage systems, pumps and auxiliary equipment.
- Occupational hazards and safety precautions of the trade.
- University, state and federal regulations, statutes and ordinances.
- Current trade methods, materials, preparation, equipment, maintenance and repair principles and procedures.
- Electrical codes applicable to the Central Energy Plant and West Campus Energy Plant.
- Data recording and analytical procedures for diagnosing equipment or system problems.
- Water and pollution control testing, including use of a combustion gas analyzer.
- Computer control systems and software applications.
- Preventative Maintenance programs.

Skills and Abilities to:

- Safely and efficiently operate & maintain multi-fuel, 125psig pressure boilers, condensing boilers, thermal storage energy systems, centrifugal chiller plant, flat plate heat exchangers, air compressors and other associated equipment within a power plant.
- Train in the operation and maintenance of boilers and chillers under normal and emergency conditions.
- Read, interpret and work from sketches, blueprints, specifications, and construction drawings.
- Perform duties of Plant Operator or Auxiliary Operator.
- Test systems, log results, locate and resolve problems.
- Conduct water and pollution control tests to maintain set standards.
- Understand and carry out oral and written instructions.
- Work under limited supervision.
- Communicate clearly and concisely.
- Conduct generator maintenance and tests.
- Coordinate maintenance and repair of control systems and equipment with plant personnel.
- Move objects weighing 50 pounds regularly.
- Work in elevated positions, or confined spaces.
- Operate computer control systems, monitor gauges, and react appropriately to changes to keep system within industry standards.
- Maintain effective supervisory relationships.
- 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:

Energy Production Senior: Works under limited supervision and provides project supervision while scheduling and coordinating maintenance and repairs. Maintaining, repairing, and calibrating Central Energy Plant and West Campus Energy Plant systems and equipment to ensure uninterrupted operation. As the lead, functionally supervise and train energy plant employees. This position performs the functions of the Energy Production Manager in their absence, as well as Plant Operator or Auxiliary Operator.

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.

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.

Energy Production Manager: Supervises and schedules up to 14 energy plant personnel and all plant operations.

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.