

WATER PLANT STEAMFITTER/HVAC SPECIALIST

THE PURPOSE: The person in this position – performing at a journey worker level – installs, maintains, repairs, and removes steam piping systems, heating and ventilation systems, plumbing and process water piping, cryogenic piping systems, chemical feed piping systems, dehumidification systems, and air conditioning systems and boilers.

ESSENTIAL FUNCTIONS:

- ◆ Performs preventive maintenance, repairs, and new installations for piping systems and appurtenances for the following applications: air, gas, water, steam, process chemicals, and cryogenic fluids and other fluids.
 - ◆ Replaces or repairs assemblies such as valves, gauges, hydraulic and pneumatic controls, pressure and flow regulators, backflow preventers, heat exchangers, and heating and plumbing fixtures.
- ◆ Performs preventive maintenance, repairs, and new installations for heating, air conditioning, and other systems.
 - ◆ Re-charges air conditioning systems.
 - ◆ Handles refrigerant duties according to state and federal mandates.
 - ◆ Performs re-tubing cleaning, makes burner adjustments, replaces gaskets, and maintains and tests low-pressure boilers and propane fuel systems.
 - ◆ Performs layout work, and tests and inspects completed work.
- ◆ Uses a computerized maintenance management system to maintain records of preventive and demand maintenance requests.
- ◆ Assists in keeping perpetual inventory of parts required to perform preventive maintenance and repair of HVAC and piping equipment.
- ◆ Makes equipment repairs using proper equipment lifting and handling techniques; erects scaffolding, operates overhead cranes, and sets up hitches as needed to perform these duties, with due regard to safety of personnel and equipment.
- ◆ Makes assignments and directs and inspects the work of laborers, mechanics, and machinery technicians.
- ◆ Accurately and thoroughly documents work performed, writes procedures, and completes required departmental and governmental reports.
- ◆ Performs other related duties and assists other plant personnel as assigned.

CONDITIONS OF EMPLOYMENT: The person in this position must be willing and able to work at heights of up to 50-100 feet, in confined spaces, at high noise levels, in all weather conditions, and in close proximity to hazardous chemicals. In addition, the Water Plant Steamfitter/HVAC Specialist is subject to call-in for water system emergencies 24 hours a day.

MINIMUM REQUIREMENTS:

1. Five years of experience as a power plant mechanic, power plant steamfitter, or HVAC mechanic.

NOTE: Equivalent combinations of education and experience may also be considered.

2. A State of Wisconsin Department of Commerce Refrigerant Handling Technician Certification,

-OR-

 A State of Wisconsin Department of Commerce Backflow Preventer Inspection Certification.

NOTE: The applicant must hold **one** of these certifications to meet the minimum qualifications and must obtain the other within six months of hire. The certifications must then be maintained throughout employment.

3. A City of Milwaukee Stationary Engineer's permit to operate Low Pressure Boilers, or obtaining one within six months of hire. The permit must then be maintained throughout employment.
4. A valid driver's license at time of appointment and throughout employment.

5. Residency in the City of Milwaukee within 6 months of appointment and throughout employment.

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER CHARACTERISTICS:

- ◆ General understanding of water purification plant system processes and pumping stations.
- ◆ Knowledge of heating, cooling, and ventilating systems.
- ◆ Knowledge of computerized maintenance management and computer-assisted diagnostic programs.
- ◆ Specialized mechanical knowledge of the machines and tools required to perform the essential functions of this position: their designs, uses, repair, and maintenance.
- ◆ Knowledge of preventive maintenance programs.
- ◆ Manual dexterity.
- ◆ Ability to perform rigging and crane/hoist assisted lifting procedures up to rated equipment capacity.
- ◆ Ability to properly use gas and electric cutting and welding equipment.
- ◆ Ability to inspect materials or equipment to detect defects or malfunctions.
- ◆ Ability to read and comprehend work-related documents; ability to read, interpret, and work from blueprints, plans, and specifications.
- ◆ Ability to clearly summarize work performed in writing.
- ◆ Skill in performing mathematical operations.
- ◆ Understanding of proper handling of hazardous chemicals.
- ◆ Ability to work independently with minimum direct supervision as well as to function as part of a team.
- ◆ Ability to direct the work activities of assigned personnel as well as to instruct them on safe equipment operations and procedures.
- ◆ Good interpersonal skills.
- ◆ Ability to lift and handle 50 lbs or more of equipment or material on a daily basis.

THE CURRENT PAY RANGE (SG 287) IS: \$43,734.86 to \$53,034.28 annually.