

## **JUNIOR WATER PLANT INSTRUMENT TECHNICIAN**

**DISTINGUISHING FEATURES OF THE CLASS:** The incumbent provides technical assistance in the routine maintenance and operation of chlorinators, flow meters & transducers, and maintenance and repair of electronic devices (disinfectant system, circuit boards, UV intensity monitors, etc.) used in a modern water treatment plant. Training is provided on a daily basis to learn the functions of a water treatment plant and all aspects of the technical field. The incumbent performs routine calibration and maintenance of field devices, as well as assists in the repair and installation of electronic devices.

### **TYPICAL WORK ACTIVITIES:** (Illustrative Only)

- Operates, maintains, and calibrates chlorine analyzers, ultrasonic flow transducers, metering pumps, and pressure transmitters;
- Assists in the daily inspection and operation of electronic, hydraulic and pneumatically activated meters, gauges and other regulating devices;
- Performs routine calibration and maintenance of field devices;
- Responds to problems with field devices and makes necessary repairs;
- Assists in the calibration of equipment using a variety of testing devices to correlate instruments with established standards;
- Maintains accurate records;
- Assists in the preparation of reports;
- Enters and retrieves information in an automated information system;
- Performs related work as required.

### **FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

- Working knowledge of the methods, materials, tools, equipment and procedures used in the operation and maintenance of water treatment plant equipment;
- Good knowledge of personal computers and office equipment;
- Skill in the use of manual and power tools;
- Ability to learn machinery, equipment and maintenance of a water treatment plant;
- Ability to learn the practices, tools and terminology of the instrumentation industry;
- Ability to learn proper and safe procedures for the installation of control and power wiring;
- Ability to read and comprehend technical instructions for installation and calibration of field devices including flow meters, pressure transmitters, chemical feed equipment, valves, and water quality analyzers;
- Ability to assist with troubleshooting of field devices, radio transmitters and receivers, and operator interface hardware;

- Ability to follow oral and written instructions;
- Ability to get along well with others;
- Willingness to work under all weather conditions and in confined spaces;
- Physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:**

- A.** Graduation from a regionally accredited or NYS registered college or one accredited by the NYS Board of Regents to grant degrees with an Associate's Degree (or higher) in Electrical Engineering Technology, Electronics, or Mechanical Engineering Technology or related field and three (3) years of experience in the installation, maintenance, repair and calibration of electronic or electrically operated equipment used in a water treatment plant or other industrial facility; **OR;**
- B.** Graduation from high school or possession of a high school equivalency diploma and five (5) years of experience as defined by the limits of (A) above; **OR;**
- C.** Any equivalent combination of training and experience as defined by the limits of (A) and (B) above.

**SPECIAL NOTE:**

A valid NYS Driver's License is required at the time of appointment and for the duration of employment.

**NOTE:**

Position may require ability to work Saturdays, Sundays, and holidays; and able to work shift assignments during the day, evening and nights.

Issued: 5/26/04