

# **WATER PLANT INSTRUMENTATION SPECIALIST**

**Milwaukee Water Works, Department of Public Works**

**PURPOSE:** Independently installs, repairs, performs preventative maintenance, and calibrates to specification plant process instrumentation essential to the operation of the plants and production of high quality water.

## **ESSENTIAL FUNCTIONS:**

- Install, repair, perform preventive maintenance, and calibrate to specification plant process instrumentation that generates data used for documenting regulatory compliance and process control; instrumentation includes turbidity meters, particle counters, and pH meters, ultrasonic level indicators and readouts, telemetering, transmitting and receiving/recording equipment, flow meter equipment, and on-line analyzers associated with the following chemicals: ozone, oxygen, alum, fluoride, sodium hypochlorite, phosphoric acid, and ammonia.
- Interpret and utilize electrical, electronic, pneumatic, and control schematics and technical data supplied with instruments relative to their ranges and calibration curves.
- Use related test equipment, methods, and software applications to diagnose system problems and locate malfunctioning equipment.
- Install, repair, service and calibrate to specification bench top laboratory quality control instrumentation.
- Use computerized Maintenance Management System for maintaining records of preventive and demand maintenance requests.
- Maintain equipment repair logs and system status reports.
- Recommend items for and levels of inventory to maximize workplace efficiency and reduce "down time".
- Independently research and order parts from vendors to complete tasks.
- Perform other related duties as assigned.

## **CONDITIONS OF EMPLOYMENT:**

- Subject to call-in for water system emergencies, 24 hours a day.

*Reasonable accommodations requested by qualified individuals with disabilities will be made in accordance with the Americans with Disabilities Act (ADA) of 1990.*

## **MINIMUM REQUIREMENTS:**

1. Associate's Degree in Electronics Technology from an accredited college or technical college and one year of experience in the electronics technology field diagnosing and repairing process control equipment as an Electronics Technician, Instrument Repair Technician, Instrumentation Specialist or similar title.

**OR**

- Three** years in the electronics technology field diagnosing and repairing process control equipment as an Electronics Technician, Instrument Repair Technician, Instrumentation Specialist or similar title.
- *NOTE: A State of Wisconsin Surface Water Treatment Operator's Certification is desirable.*
  - *Equivalent combinations of education and experience may also be considered.*
2. Medical and physical certification for use of SCBA (Self-Contained Breathing Apparatus) equipment at the time of appointment and throughout employment.
  3. Valid Driver's License at time of appointment and throughout employment.
  4. Residence in the City of Milwaukee within 6 months of appointment and throughout employment.

## ***Water Plant Instrumentation Specialist***

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***NOTE: College transcripts are required and must be received within three business days after the application period closes. College transcripts may be either attached to the application, sent to [staffinginfo@milwaukee.gov](mailto:staffinginfo@milwaukee.gov), or sent to Box MPSTSA, Department of Employee Relations, City Hall, Room 706, 200 E. Wells St., Milwaukee, WI 53202-3554. Student copies are acceptable. Only applications with transcripts will be considered; applications without transcripts will be rejected.***

### **KNOWLEDGE, SKILL AND OTHER ABILITY REQUIREMENTS:**

- *Knowledge of advanced digital and analog electronics.*
- Basic computer literacy in Windows and office applications.
- *Skill to read schematics, process and instrumentation drawings.*
- *Ability to write and compile information necessary to document regulatory compliance and process control*
- *Ability to describe and discuss technical topics with supervisors and coworkers to ensure proper operation of plant equipment*
- Ability to set up and use computer software for diagnostic and calibration applications.
- Ability to use computer assisted maintenance programs.
- *Ability to manipulate and control machines and mechanisms critical to the delivery of high quality water.*
- Ability to work in confined spaces, in all weather conditions, and in close proximity to hazardous chemicals.
- Ability to take initiative and use creative approaches to solving instrumentation problems.
- Ability to lift or transfer loads of twenty pounds or more on a regular basis.

**THE CURRENT PAY RANGE (PR 3KN) IS: \$46,607 to \$53,328** annually with excellent benefits.

**THE SELECTION PROCESS** will be job related and will consist of one or more of the following: education and experience evaluation; written, oral, or performance tests; or other assessment methods. The Department of Employee Relations reserves the right to call only the most qualified candidates to oral and performance examinations. Oral examinations may include written exercises. Selection process component weights will be determined by further analysis of the job.

The examination will be held as soon as practical after **May 10, 2013**. Receipt of applications may be discontinued at any time after this date without prior notice, however, recruitment may continue until the needs of the City have been met. Qualified applicants will be notified of the date, time, and place of the examination. Unless otherwise required by law, the City of Milwaukee will not provide alternative test administration. The applicant is responsible for attending all phases of the job selection process at the time and place designated by the City of Milwaukee.

***APPLICATIONS*** and further information may be obtained in person or via mail from the City of Milwaukee Department of Employee Relations, 200 E Wells St, Room 706, Milwaukee, WI 53202-3554, from [www.milwaukee.gov/jobs](http://www.milwaukee.gov/jobs), or by calling (414) 286-3751.

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