



Pittsburgh  
Water & Sewer  
Authority

## **JOB ANNOUNCEMENT**

**POSITION:** Electrician

**POSTED:** August 8, 2017

**DIVISION:** Water Production

**APPLICATION DEADLINE:** Until Filled

**SALARY:** \$29.20 Hour

**UNION:** This position is included in the Pittsburgh Joint Collective Bargaining Committee and will be filled in accordance with the provisions of the Collective Bargaining Agreement.

**POSITION SUMMARY:** This position requires considerable detailed technical skill and expertise in the completion of tasks, and ensures that the components of the PWSA's different process control, telemetry, and data acquisition systems are operational. This position typically services *the electronic components of monitoring, telemetry and control equipment, as well as the initial troubleshooting of equipment and services, electrical transmission lines, circuitry, and motors. Must obtain City of Pittsburgh Master Electrician License within six months.*

**DUTIES:** Designs, tests, calibrates, operates, maintains and repairs electronic or *micro-processing* measuring and recording instruments, apparatus and equipment used to monitor and control Authority operations including the water treatment plant, chemical facilities, filtration processes and remote facilities. Calibrates, repairs, and maintains analog and digital control systems, flow meters, pressure sensors, telemetry communication; and updates data bases in existing and new SCADA components *and micro-processing devices*. Identifies problems in the field and makes decisions utilizing independent judgment and analyses; directs the work of lower-level personnel on a project basis; maintains records, both manually and by computerized methods, and prepares accurate reports; may develop databases and spreadsheets using various software programs (e.g., Windows, Microsoft Office, Excel, Access etc.) Installs electrical and electronic control systems for the Authority; installs, repairs, maintains and modifies all lighting and power circuits, fixtures, controls, motors, pumps and equipment that is operated from all voltage levels (e.g., signal equipment, pumps, lighting, cranes, instrumentation, etc.); performs electrical inspections for preventive maintenance; determines type and size wire, conduits, fixtures, boxes, etc., and proper voltage and overload protection necessary; modifies existing circuits, fittings, etc., to accommodate new and modern fixtures, equipment and controls; lubricates and maintains electrical motors and medium voltage switchgear and related equipment; maintains records and prepares accurate reports as requested or required; may install, repair and maintain solid state circuits to control remote pumps, transmit status and analog data, including chlorine analyzers, turbid meters, level transmitters, rapid sand filter control devices, flow measuring devices, Remote Terminal Units (RTUs), Signal Transmitter Receivers, Programmer Logic Control (PLCs), modems, Operator Interface Devices, etc.; installs, troubleshoots and maintains all components of Supervisory Control and Data Acquisition system (SCADA); may work all shifts, evenings, weekends and holidays; may drive Authority vehicle; maintains records both manually and by automated methods, and prepares accurate reports, work-orders, correspondence, etc.; performs activities and functions of related lower-level personnel as assigned or required; and performs such other related tasks and duties that are assigned or required.

**KNOWLEDGE/ABILITIES:** Considerable knowledge of the practices of electronics theory and related knowledge to design, build, repair, calibrate and modify electronic components, circuitry and controls. Ability to diagnose equipment problems and use computer-aided diagnostic equipment. Considerable knowledge of software associated not only with computers but also with peripheral equipment and apparatus that interact with the computer including digital displays, voltage modulators, differential pressure transducers and various other electronic components. Ability to perform electronic repairs to circuit boards and to use computer-aided diagnostic software and/or digital devices and to locate malfunctions. Ability to diagnose problems with electronic circuit boards and their component parts. High level of skill in industrial electronics and test equipment and all peripheral components associated with process and control instrumentation systems. Ability to direct the work of assigned lower level personnel on a project basis; Extensive knowledge of the materials, tools, equipment and procedures of the commercial/industrial electrician trade and of the hazards and safety precautions of the work; considerable knowledge of the installation, maintenance and repair of electrical and electronic control systems, including solid state circuitry; considerable knowledge of national and local electrical codes and safety regulations; ability to read drawings on circuits, control devices, printed circuits and line diagrams; ability to use computerized equipment to troubleshoot SCADA system and program SCADA devices; to work in elevated and constricted spaces; to work outdoors in all weather; to maintain records and prepare accurate reports as requested or required; to communicate effectively, both orally and in writing; and to establish and maintain effective working relationships with supervisors, associates, outside agencies and the general public.

**GENERAL REQUIREMENTS:** Candidate must be domiciled in City of Pittsburgh at the time of appointment and remain domiciled in the City of Pittsburgh throughout employment with the PWSA. Verification of City residency required at time of appointment. Must present a current, valid Class C (Class 1) Pennsylvania Motor Vehicle Operator's License at the time of application or prior to appointment. A valid driver's license must be maintained throughout employment.

8/8/2017



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**EDUCATION/EXPERIENCE REQUIREMENTS:** In order to be considered eligible for this position the application must clearly show an Associate's Degree in Electronics Engineering Technology or a related field plus five years' experience as an Instrumentation or Electronics Technician or commercial electrician or industrial electrician, or equivalent combination of training and experience. **City of Pittsburgh Electrician License required.**

**EXAMINATION:** A written and/or performance exam may be required.

**MEDICAL EXAMINATION:** Required prior to appointment.

**APPLICATIONS:** Available in the Human Resources Department, 1200 Penn Avenue or online at [www.pgh2o.com](http://www.pgh2o.com). Please send the application, resume and cover letter to [hr@pgh2o.com](mailto:hr@pgh2o.com)

### **AN EQUAL OPPORTUNITY EMPLOYER**

**The PWSA does not discriminate against anyone on the basis of race, color, religion, ancestry, national origin, place of birth, sex, sexual orientation, family status, age, or non-disqualifying disability, or on any other basis protected by federal, state or local law.**