

South Central Wastewater Authority  
900 Magazine Road  
Petersburg, VA 23803  
(804) 861-0111  
scwwa.org

I. POSITION TITLE: INSTRUMENTATION & CONTROLS TECHNICIAN  
\$50,244.00-\$77,250.15

LOCATION: PLANT

II. DEFINITION:

Perform routine to skilled level installation, upgrade, maintenance, and troubleshooting of process instrumentation, logic control systems, motor drive systems, dosing pump systems, valve actuation controls, and electrical at on-site and remote locations. This will include running/bending conduit, pulling wires and cables, terminating wires, and terminating fiber optic cable. Other duties as assigned

Work is performed under the general supervision of the Maintenance Chief.

Work rotating holiday, On-Call schedule, and occasional overtime or after-hours when needed.

III. REQUIRED KNOWLEDGE AND SKILLS:

- Working knowledge of theories, principles, and practical application of the following:
  - PLCs
  - HMIs
  - Variable Speed Drives, AC and DC
  - Motors and Motor Controls
  - Process Control Loops
  - Control Panel Wiring
  - Chemical Feed Pumps Control and Wiring
  - Electric Valve Actuators
  - Pressure and Level Sensors
  - Magnetic Flow Meters
  - Ethernet Networking
  - Electrical Power Equipment
  - Wireless Communications
  - Multimeter and Process Control Meter
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  - Voltages 24Vdc to 480Vac, 3ph
  - Circuit Breakers from mini to MCCB
  - Use of a PC and MS Office software
- Performs installation, configuration, preventive maintenance, troubleshooting, repair, and calibration procedures safely and professionally with minimal supervision on all process control systems and instrumentation. This will include work on plant electrical systems, as needed.
- Work close to moving mechanical systems safely.
- Work inside live control panels safely.
- Solves PLC, valve actuator, AC/DC speed control, pressure and flow instrument, and general controls problems. Testing and troubleshooting of hardware and software problems.
- Reads and interprets wiring diagrams, control logic diagrams, mechanical and engineering drawings, and specifications.
- Maintain effective communication with managers, other departments, and peers.
- Utilizes resources from OEMs, manufacturers' tech support, contractors, and others to accomplish the tasks of the Process Control department as the need arises.
- Attend any training planned and scheduled by the Process Control Chief.

IV. MINIMUM EDUCATION AND EXPERIENCE REQUIRED:

- Associates degree in electronics technology, Instrumentation, or related field of study, and/or

experience that sufficiently substitutes for necessary skills, knowledge, and ability.

- Successful candidate would be expected to show competencies in relevant technical tasks pertaining to wiring termination or other skill as determined by department staff.
- 5+ years of plant or systems integrator work experience.
- OSHA Training.

V. OTHER QUALIFICATIONS AND REQUIREMENTS:

- Valid Virginia Driver's License.
- Skilled use of hand and electric tools.
- Practical use of industry standards for electrical and mechanical methods and practices.
- Attention to detail, neat, and organized.
- Desire to learn and train from superiors and peers.
- Physical ability to be occasionally required to climb or balance, stoop, kneel, crouch, crawl, walk on uneven and/or slippery surfaces, climb ladders, and enter designated Confined Spaces.
- Be able to frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 50 pounds.
- Must have sense perception such as hearing, visual acuity, color vision, etc.

Send Resume to: [mwilkins@arwava.org](mailto:mwilkins@arwava.org)