

**LOUISVILLE METROPOLITAN SEWER DISTRICT  
invites applications for the position of:**



**Maintenance Electrician I/II/III  
(subject to shift)**

**SALARY:** \$32.23 - \$35.03 Hourly  
\$67,038.40 - \$72,862.40 Annually

**OPENING DATE:** 03/02/22

**CLOSING DATE:** 03/08/22 11:59 PM

**JOB SUMMARY:**

This position will be filled as a Maintenance Electrician I, II, or III based on candidate's qualifications.

*Current pay rates:*

**Maintenance Electrician I - \$32.23/hr.**

**Maintenance Electrician II - \$33.34/hr.**

**Maintenance Electrician III - \$35.03/hr.**

**Maintenance Electrician I**

Under supervision, inspects and troubleshoots electrical, electronic and pneumatic systems, components and equipment. Maintains, and repairs electrical circuits and related instruments and equipment. Calibrates, maintains and repairs electronic instruments, recording devices and systems including programmable systems incorporating microchip technology. Performs all aspects of electrical construction and maintenance.

**Maintenance Electrician II**

Under moderate supervision, inspects and troubleshoots electrical, electronic and pneumatic systems, components and equipment. Installs, maintains, and repairs electrical circuits and related instruments and equipment. Installs, calibrates, maintains and repairs electronic instruments, recording devices and systems including programmable systems incorporating microchip technology. Performs all aspects of electrical construction and maintenance. Pull as-built drawing and O&M from MSD's electronic systems. May direct the work of other crew members and assists with training as needed.

**Maintenance Electrician III**

Under minimum supervision, inspects and troubleshoots electrical, electronic and pneumatic systems, components and equipment. Installs, maintains, and repairs electrical circuits and related instruments and equipment. Installs, calibrates, maintains and repairs electronic instruments, recording devices and systems including programmable systems incorporating microchip technology. Performs all aspects of electrical construction and maintenance. Pull as-built drawing and O&M from MSD's electronic systems. Writes work orders or notifications within MSD's work order system. Directs the work of other crew members and assists with training as needed.

**ESSENTIAL JOB FUNCTIONS:**

**Maintenance Electrician I**

Utilizes technical knowledge and experience to interpret wiring diagrams, schematics, flow diagrams, blueprints, vendor publications and other documents. Regularly inspects electrical systems (high, medium and low voltage), electronic, hydraulic and pneumatic systems and components for serviceability. Identifies malfunctions and estimates equipment, materials and supplies required to correct malfunctions. Performs preventive and corrective electrical, electronic, pneumatic and hydraulic maintenance work on projects or systems. Uses relay logic/PLC logic in troubleshooting of electrical and instrumentation systems. Installs electrical, electronic, pneumatic and computerized systems. Diagnoses and repairs computer-related hardware and programmable devices. Repairs faulty circuitry at board and component levels. Installs, repairs and modifies piping for valves, regulators, meters and gauges. Regularly prepares and maintains records, reports, log books, and other data related to tasks performed. Drives vehicle to job sites to transport tools, equipment and materials. Responsible for recording time, materials and equipment. Keeps shop, work bench and job sites clean and orderly. Performs necessary housekeeping tasks. May perform mechanical maintenance work to expedite returning a system or equipment to service. May be requested to remove and install various sizes of motors and associated pulleys, belts, and couplings and perform basic alignment. Performs other related duties as assigned or as judgment/necessity dictates.

### **Maintenance Electrician II**

Utilizes technical knowledge and experience to interpret wiring diagrams, schematics, flow diagrams, blueprints, vendor publications and other documents. Makes drawings/sketches of old and new systems. Regularly inspects electrical systems (high, medium and low voltage), electronic, hydraulic and pneumatic systems and components for serviceability. Identifies malfunctions and estimates equipment, materials and supplies required to correct malfunctions. Consistently meets time and specification requirements when performing preventive and corrective electrical, electronic, pneumatic and hydraulic maintenance work on projects or systems. Uses relay logic/PLC logic in troubleshooting/design of electrical systems. Installs electrical, electronic, pneumatic and computerized systems. Diagnoses and repairs computer-related hardware and programmable devices. Loads, executes and evaluates computer diagnostic programs; Repairs faulty circuitry at board and component levels. Installs, repairs and modifies piping for valves, regulators, meters and gauges. Regularly prepares and maintains records, reports, log books, and other data related to tasks performed. Drives vehicle to job sites to transport tools, equipment and materials. Responsible for recording time, materials and equipment. Keeps shop, work bench and job sites clean and orderly. Performs necessary housekeeping tasks. May perform mechanical maintenance work under emergency conditions. May perform mechanical maintenance work to expedite returning a system or equipment to service. May be requested to remove and install various sizes of motors and associated pulleys, belts, and couplings and perform basic alignment. Installs, repairs and modifies piping for valves, regulators, meters and gauges. Performs other related duties as assigned or as judgment/necessity dictates.

### **Maintenance Electrician III**

Utilizes technical knowledge and experience to interpret wiring diagrams, schematics, flow diagrams, blueprints, vendor publications and other documents. Makes drawings/sketches of old and new systems. Regularly inspects electrical systems (high, medium and low voltage), electronic, hydraulic and pneumatic systems and components for serviceability. Identifies malfunctions and estimates equipment, materials and supplies required to correct malfunctions. Consistently meets time and specification requirements when performing preventive and corrective electrical, electronic, pneumatic and hydraulic maintenance work on projects or systems. Uses relay logic/PLC logic in troubleshooting/design of electrical systems. Installs electrical, electronic, pneumatic and computerized systems. Diagnoses and repairs computer-related hardware and programmable devices. Loads, executes and evaluates computer diagnostic programs; Repairs faulty circuitry at board and component levels. Installs, repairs and modifies piping for valves, regulators, meters and gauges. Regularly prepares and maintains records, reports, log books, and other data related to tasks performed. Drives vehicle to job sites to transport tools, equipment and materials. Responsible for recording time, materials and equipment. Keeps shop, work bench and job sites clean and orderly. Performs necessary housekeeping tasks. May perform mechanical maintenance work under emergency conditions. May perform mechanical maintenance work to expedite returning a system or equipment to service. May be requested to remove and install various sizes of motors and associated pulleys, belts, and couplings and perform basic alignment. Installs, repairs and modifies piping for

valves, regulators, meters and gauges. Performs other related duties as assigned or as judgment/necessity dictates.

## **KNOWLEDGE, SKILLS AND ABILITIES NECESSARY TO THE WORK:**

### **Maintenance Electrician I**

Knowledge of electrical, instrumentation, hydraulic, pneumatic and electronic maintenance techniques; knowledge of correct and safe usage of electrical and electronic test equipment and electrical codes (NEC, ISA, and ASME); skill in reading and interpreting blueprints, elementary and schematic diagrams; ability to use heavy tools including, but not limited to hammer drills, ditch witch, forklift, electric carts, drill press, sawzall, bandsaws, core drills, concrete saws, pipe benders, and threaders; ability to use a high voltage hot stick; must have the ability to distinguish primary colors and their attributes; ability to perform physically demanding tasks as outlined above; ability to work outdoors, at night and under adverse working conditions such as inclement weather; ability to work effectively under heavy, unpredictable surges in workload; ability to work various shifts and mandatory overtime.

### **Maintenance Electrician II**

Knowledge of high, medium and low voltage electrical, hydraulic, pneumatic and electronic maintenance techniques; knowledge of correct and safe usage of electrical and electronic test equipment and electrical codes (NEC, ISA, and ASME); knowledge of the Corps of Engineers Operations and Maintenance Manuals and the procedures for the maintenance and operation of the Flood Protection System during normal operation and flood emergencies; skill in reading and interpreting electrical and mechanical blueprints, elementary and schematic diagrams; skill in using heavy tools including, but not limited to hammer drills, ditch witch, forklift, electric carts, drill press, sawzall, bandsaws, core drills, concrete saws, pipe benders and threaders; skill in using a high voltage hot stick, megger and other high voltage testing equipment; ability to distinguish primary colors and their attributes; ability to understand and operate equipment; ability to perform physically demanding tasks as outlined above; ability to work outdoors, at night and under adverse working conditions such as inclement weather; ability to work effectively under heavy, unpredictable surges in workload; ability to work various shifts and mandatory overtime.

### **Maintenance Electrician III**

Knowledge of high, medium and low voltage electrical, hydraulic, pneumatic and electronic maintenance techniques; knowledge of correct and safe usage of electrical and electronic test equipment and electrical codes (NEC, ISA, and ASME); knowledge of the Corps of Engineers Operations and Maintenance Manuals and the procedures for the maintenance and operation of the Flood Protection System during normal operation and flood emergencies; skill in reading and interpreting electrical and mechanical blueprints, elementary and schematic diagrams; skill in using heavy tools including, but not limited to hammer drills, ditch witch, forklift, electric carts, drill press, sawzall, bandsaws, core drills, concrete saws, pipe benders and threaders; skill in using a high voltage hot stick, megger and other high voltage testing equipment; ability to distinguish primary colors and their attributes; ability to understand and operate equipment; ability to perform physically demanding tasks as outlined above; ability to work outdoors, at night and under adverse working conditions such as inclement weather; ability to work effectively under heavy, unpredictable surges in workload; ability to work various shifts and mandatory overtime.

## **MINIMUM REQUIREMENTS:**

### **Maintenance Electrician I**

High School Diploma or GED; three or more years experience working as a journeyman industrial electrician; an equivalent combination of education and experience may be substituted. Completion of a journeyman-level training program in maintenance of electrical systems (high, medium and low voltage) and in electronic, pneumatic instrument systems and digital technology is preferred. Must meet job knowledge and job skills assessment requirements. Must possess a

valid driver's license. Must have an acceptable and reliable means for being contacted during off-duty hours. Must have safe work and driving habits.

### **Maintenance Electrician II**

High School Diploma or GED; five or more years' experience as an industrial electrician/instrumentation technician; an equivalent combination of education and experience may be substituted. Must hold a valid journeyman card or EE license through the State of KY or reciprocating State. Must have experience in working on medium and high voltage equipment such as 2400-4160 volt switchgear/motor controls and motors as well as various substation equipment ranging from 13.8KV to 138KV. Must have experience troubleshooting industrial motor controls. Must meet job knowledge and job skills assessment requirements. Must possess a valid driver's license. Must have an acceptable and reliable means for being contacted during off-duty hours. Must have safe work and driving habits.

### **Maintenance Electrician III**

High School Diploma or GED; seven or more years' experience as an industrial electrician/instrumentation technician; an equivalent combination of education and experience may be substituted. Must hold a valid Master Electrical license through the State of KY or reciprocating State and a Certified Control Systems Technician Level 1 (CCST). Must have experience in working on medium and high voltage equipment such as 2400-4160 volt switchgear/motor controls and motors as well as various substation equipment ranging from 13.8KV to 138KV. Must have experience troubleshooting industrial motor controls. Must meet job knowledge and job skills assessment requirements. Must possess a valid driver's license. Must have an acceptable and reliable means for being contacted during off-duty hours. Must have safe work and driving habits.

APPLICATIONS MAY BE FILED ONLINE AT:  
<http://www.louisvillemisd.org>

Position #22-036  
 MAINTENANCE ELECTRICIAN I/II/III (SUBJECT TO SHIFT)  
 MF

700 W. Liberty Street  
 Louisville, KY 40203

[hr@neogov.com](mailto:hr@neogov.com)

## **Maintenance Electrician I/II/III (subject to shift) Supplemental Questionnaire**

- \* 1. What is your highest level of education completed?
- No H.S. diploma or GED
  - High School Diploma or GED
  - Some college, no degree
  - Associate Degree
  - Bachelor Degree
  - Master's Degree
  - Other Graduate Degree
- \* 2. Do you have a valid driver's license?
- Yes     No
- \* 3. How many years of experience do you have working as a journeyman industrial electrician or in a comparable position?
- Less than 3 years
  - 3-5 years
  - More than 5 years
- \* 4. Have you completed a journeyman-level training program in maintenance of electrical

systems (high, medium and low voltage)?

Yes  No

\* 5. Do you hold a valid journeyman card?

Yes  No

\* 6. Do you hold a valid Kentucky EE license?

Yes  No

\* 7. Do you hold a valid electrician license from a state other than Kentucky?

Yes  No

\* 8. Do you hold a valid Kentucky Master Electrician license?

Yes  No

\* Required Question