

Position Title: Maintenance Electrician / Plant Operator

Salary Range: \$XX.XX/Hour

Responsible to: Wastewater Operations Supervisor

Posting Dates: Open Until Filled

**Job Summary:**

The Maintenance Electrician / Plant Operator oversees and performs skilled, electrical work in the repair, installation, maintenance, replacement, alteration and schematic development review of electrical equipment and wiring systems related to the District's sewer and facility systems. This also includes telecommunication data cabling, low voltage security systems and flow monitoring equipment installation and calibration. The Maintenance Electrician / Plant Operator also works with maintenance teams to perform electrical pump station repairs and general maintenance duties. It is not anticipated that the Maintenance Electrician / Plant Operator will have full time electrical duties and may often be called upon to assist treatment plant operators and perform treatment plant operational and maintenance duties that are non-electrical in nature. The Maintenance Electrician / Plant Operator will assist the Senior Plant Operator or may take the lead, as assigned, in all treatment plant maintenance and operations activities under the direction and supervision of the Operations Supervisor. The Maintenance Electrician / Plant Operator must effectively perform maintenance and operations activities and procedures so as to maintain a high level of efficiency and to keep problems to a minimum.

Successful performance requires the ability to work efficiently and communicate with the other plant operators and staff. Adherence to the District's core values is expected at all times.

**Essential Job Functions:**

- Maintains regular, predictable attendance.
- Physical ability to conform to all safety requirements.
- Accountable for installation, and maintenance of electrical equipment and electrical controls to ensure efficient and reliable operation of District equipment.
- Accountable for maintaining accurate records, ordering necessary material, performing preventative maintenance and corrective repairs.
- Reviews and oversees contractors performing electrical work for the District to ensure that the work performed adheres to the District's contract specifications.
- Reviews contract and construction electrical specifications to ensure the longevity and efficiency of equipment and electrical installations.

- Instructs and directs additional personnel that are assigned to the electrical staff.
- Exercises sound judgement and decisions within the scope of each assignment.
- Performs instrumentation installation, calibration, and repairs.
- Maintains all electrical equipment for the safe operation of both equipment and personnel.
- Follows all safety requirements set forth by District policy, State and Federal Codes.
- Monitors and complies with all safety measures and procedures at all times.
- Available for On-call duty and after hour emergencies.
- May require shift, weekend, and holiday work.

**Additional Duties And Responsibilities:**

- Understands job procedures, rules, safety and enforcement of those policies and procedures.
- Competently performs all assigned tasks and assists in the training of other Electrical staff as required.
- Receives instructions and work specifications from the Operations & Collections supervisors.
- Motivates other staff members to meet quality standards, schedules, and positively contribute to solving work-related problems.
- Assists in wastewater treatment plant operations as a part of the regular duties.
- Requires basic knowledge/understanding of wastewater mathematics and their applications for efficient plant operation.
- Assists in the laboratory under the direction of the laboratory supervisor. Collects samples from various treatment locations, and performs analysis in accordance with Standard Methods reference manual.
- May be assigned tasks and / or job duties of Operations staff.

### **Education and Experience:**

- High school or equivalent. An Associates' degree or applicable vocational training certificate in wastewater operations, Industrial electrical practices, or a mechanical program is preferred.
- Must obtain any required certifications or Licenses applicable to the utility such as First Aid and Confined Space Training

### **Knowledge, Skills and Abilities:**

- Strong working knowledge of Industrial electrical systems and troubleshooting techniques. Familiarity with the National, state and local -Electrical Codes and requirements.
- Skilled in trouble shooting, and calibrating instrumentation process control loops and instrumentation equipment and electrical controls.
- Ability to operate necessary portable calibration equipment to ensure that electrical equipment is operating correctly and process control is maintained.
- Ability to perform corrective repairs on all instrumentation, and general equipment as needed.
- Good mechanical aptitude for tasks such as installing bearings, mechanical seals, motor/drive rebuilds and trouble shooting.
- Ability to work with limited or no direct supervision on assigned tasks and maintains a safe working environment and complies with all District job procedures, policies and safety guidelines.
- Skilled in electrical construction practices in an industrial environment.

### **General Requirement:**

- Ability to communicate courteously, effectively, tactfully, and maintain confidentiality.
- Demonstrate strong written communication skills.
- Ability to carry out oral and written instructions.
- Ability to organize and prioritize workload.
- May perform task/job duties of wastewater operators in order to balance workload and / or cross-train personnel.
- Proficiency with common office practices, equipment and software.
- Other wastewater operator duties as assigned.

### **Special Requirements:**

- Must have a valid WA State Driver's License.
- Within one year of employment you must obtain an OIT (Operator-In-Training) License with the Washington State Department of Ecology.
- Formal electrical apprenticeship training.
- Work history as a Washington State Journeyman Electrician level 1 is preferred but not essential for consideration for this position.

### **Machinery, Tools, Equipment, Personal Protective Equipment:**

- Equipment utilized including laboratory equipment; miscellaneous hand and power operated tools and equipment associated with the maintenance and repair of pump stations and wastewater treatment plants; vehicles including small and full size pickup trucks and standard office equipment including computers.
- Personal Protective Equipment (PPE's) shall be comprised of all PPE's associated with chemical, confined spaces, and atmospheric conditions common in the work place. Level of PPE protection will be determined by District Safety Officer.
- Able to wear and use a respirator (tight fitting negative and positive type).
- Familiarity with Arc Flash PPE and instruments typically utilized by electricians.

### **Physical Demands and Work Environment:**

- Work is generally performed inside and outside in all types of weather.
- May require shift, weekend and holiday work as required by emergency work assignment.
- Anticipated to respond in emergency situations.
- Work is generally performed in an environment consisting of loud noises, biological agents, chemical hazards, and odors associated with wastewater treatment plants, and pump stations.
- Ability to work in or around confined spaces.
- Ability to perform manual tasks involving physical strength and endurance.
- Requires visual and hearing acuity and substantial manual dexterity.

- Ability to withstand exposure to variable weather conditions.
- Please see attached chart for additional details.

**Maintenance Electrician / Plant Operator Position**

**PHYSICAL DEMANDS:** How much on-the-job time is spent performing the following physical activities?

Physical Activity	Amount of Time			
	None	Less than 1/3	1/3 to 2/3	More than 2/3
Stand				X
Walk			X	
Sit		X		
Use hands to finger, handle or feel				X
Reach with hands and arms				X
Climb or balance		X		
Stoop, kneel, crouch or crawl		X		
Talk or hear				X
Taste or smell				X

**Does this job require that weight be lifted or force be exerted? If so, how much and how often?**

Lifts Weight or Exerts Force	Amount of Time			
	None	Less than 1/3	1/3 to 2/3	More than 2/3
Up to 10 pounds			X	
Up to 25 pounds			X	
Up to 50 pounds		X		
Up to 100 pounds		X		
More than 100 pounds		X		

**Select the specific vision requirements of this job (you may check as many as needed):**

X	<b>Close Vision</b>	Ability to see clearly at 20 inches or less
X	<b>Distance Vision</b>	Ability to see clearly at 20 feet or more
X	<b>Color Vision</b>	Ability to identify and distinguish colors
X	<b>Peripheral Vision</b>	Ability to observe an area that can be seen up and down or to the left and right while eyes remain fixed on a given point, i.e., drivers, referees, control board monitor
X	<b>Depth Perception</b>	3-D vision, ability to judge distances and spatial relationships to see objects where and as they actually are; i.e., drivers, conveyor system workers
X	<b>Ability to Adjust Focus</b>	Ability to adjust the eye to bring an object into sharp focus. This is required when doing close work at varying distances from the eye, i.e., computer operators, inspectors

**Environmental Demands:** How much exposure to the following environmental conditions does this job require?

	Amount of Time

<b>Environmental Conditions</b>	<b>None</b>	<b>Less than 1/3</b>	<b>1/3 to 2/3</b>	<b>More than 2/3</b>
Wet & humid conditions (non-weather)			X	
Work near moving mechanical parts				X
Work in high, precarious places		X		
Fumes or airborne particles		X		
Toxic or caustic chemicals		X		
Outdoor weather conditions				X
Extreme cold (non-weather)		X		
Extreme heat (non-weather)		X		
Risk of electrical shock		X		
Work with explosives	X			
Risk of radiation	X			
Vibration		X		