CITY OF WATSONVILLE invites applications for the position of:

Utilities Electrical/Instrumentation Technician I/II

**SALARY:**
- $35.44 - $47.49 Hourly
- $73,715.20 - $98,779.20 Annually

**DEPARTMENT:** Public Works & Utilities

**LOCATION:** 596 Water - Operations

**CLOSING DATE:** Open until filled

The Water and Wastewater Divisions are seeking a skilled and motivated individual to join its team. The City’s service area covers all of Watsonville, and runs from the coastal area of Pajaro Dunes to the foothills of Corralitos.

You will work independently and alongside the other E/I technicians and system operators. Your primary duties will include, but not be limited to, programming and maintaining the electrical systems, control systems, and process instrumentation that make up these advanced water and wastewater systems.

Desirable qualities include awareness of new technology; knowledge of SCADA systems, PLC programming and applications, communication, and process controls; and knowledge of water distribution and wastewater systems principles.

We look forward to meeting you!

This position will be filled at either level I or II depending on the experience and skill level of the selected applicant.

**JOB SUMMARY**
To install, calibrate, maintain, and repair electrical and electronic equipment, motors, control panels, associated controls, and supervisory control and data acquisition systems for all divisions of the Public Works and Utilities Department including, but not limited to, recycled water and wastewater, water, materials processing, storm water and sewer pump stations.

**DISTINGUISHING CHARACTERISTICS**
- **Utilities Electrical/Instrumentation Technician I**
  The job class functions at a journey level of classification and requires technical skill and knowledge of defined duties; functions under direct supervision.

- **Utilities Electrical/Instrumentation Technician II**
  The job class functions at an advanced journey level and requires advanced technical skill and knowledge of defined duties; functions under limited supervision.

**EXAMPLES OF DUTIES:**

Duties may include, but are not limited to, the following:
- Install, calibrate, maintain, diagnose and repair electrical and electronic equipment, motors, control centers, associated controls, supervisory control data acquisition systems,
programmable logic controllers, switch gears, liquid level controls and a variety of associated electronic and electrical systems sensors and transmitters

- Perform emergency repair to a variety of equipment
- Wire or re-wire new and existing facilities, structures or equipment
- Design electronic and electrical systems or components
- Prepare reports and maintenance records
- Operate a variety of test equipment and use small hand tools in the maintenance and repair of electronic and related equipment and systems
- Order and maintain inventory control of parts and materials
- May train personnel as required
- Maintain electrical equipment in wastewater, water, materials processing, storm water and sewer pump operations
- Perform related duties as assigned

Utilities Electrical/Instrumentation Technician I

EMPLOYMENT STANDARDS

Knowledge of:

- theory and practice of electrical, electronic and electro-mechanical design, installation, diagnosis and repair, modification, testing, maintenance and calibration of motors, control panels, associated controls, supervisory control and data acquisition systems, electronic sensors, programmable logic controllers, and related equipment
- electronic, analog and digital theory including operational characteristics of analog and digital sensory control equipment
- theories, practices, procedures and methods applied to the installation, maintenance, repair and modification of electronic, electro-mechanical, pneumatic, and hydraulic equipment, SCADA, Fiber Optic, and telemetry systems
- read and interpret computer logic diagrams, programming guides, electrical drawings, control loop diagrams, schematics, blueprints, maintenance manuals, ladder diagram, troubleshooting guides and preventive maintenance instructions
- use, calibration and maintenance of a variety of specialized electronic control system test equipment and tools
- national Electrical Code and Safety Orders of the California Department of Industrial Relations
- principles and procedures of record keeping
- pertinent safe work practices and safety procedures including hand tools and power tools
- principles and procedures of confined space entry

Ability to:

- operate a desktop/laptop computer and applicable computer software programs
- generate correspondence, emails, memos, reports, maintain maintenance records and perform similar tasks as needed
- read, interpret and understand plans, schematics, technical manuals, diagrams, blueprints and drawings
- assemble and install remote SCADA units
- safely use and care for a variety of tools and equipment
- skillfully use a variety of tools and equipment related to maintenance and installation of electrical and electronic equipment
- safely perform duties in potentially hazardous situations
- understand oral and written instructions
- meet the physical requirements necessary to safely and effectively perform required duties
- grasp with right and left hands
- use fine hand manipulation
- perform manual labor involving frequent bending, pulling, pushing, lifting, and climbing and carry weights up to 50 lbs.
- climb stairs
- understand and follow oral and written instructions
- drive an automobile
- Work outdoors in adverse weather conditions
- Hear and distinguish various sounds, such as abnormal equipment sounds, voices of co-workers in noisy environments, pager, cell phone, etc.
• work safely
• climb ladders (up to a height of 30 feet)
• maintain accurate records
• use a keyboard
• maintain good public relations with people contacted during work assignments
• establish and maintain effective work relationships with those contacted in the performance of required duties
• perform assigned duties while wearing respiratory protection equipment

**PHYSICAL REQUIREMENTS:**
Physical requirements described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

• prolonged sitting.
• standing and walking on level and uneven surfaces.
• reaching, twisting, turning, kneeling, squatting and stooping.
• working in various weather conditions outdoors.
• working indoors in various conditions (i.e. dusty, humid, moist, cool, and noisy).
• ability to sit in front of a computer for prolonged time.
• ability to generate presentations and marketing material.
• ability to hear and provide phone and personal service.
• ability to lift, drag and push display boards, folding tables, presentation materials, files and documents weighing up to 25 pounds.
• ability to work in odorous, around fumes, noisy, dusty, and slippery conditions inspecting refuse and recycling containers.
• working and walking around heavy equipment, tools and machinery.
• ability to drive a motorized vehicle.

Utilities Electrical/Instrumentation Technician II
(In addition to the above standards)

**EMPLOYMENT STANDARDS**
Knowledge of:
• complex Process and Instrumentation Diagrams (P&IDs) loop control theory, setup and tuning
• radio communications as used in controls systems
• general asset management principles and best practices, including equipment and systems maintenance methodologies

Ability to:
• perform advanced electrical controls troubleshooting
• perform plc programming
• perform SCADA system i/o and display screen programming changes
• review and evaluate design plans and specifications for a wide variety of electrical, telemetry control and instrumentation projects
• troubleshoot complex systems problems
• configure, maintain and manage the operations of computer platforms and/or networks to achieve optimal process performance and user support
• work without direct supervision

**TYPICAL QUALIFICATIONS:**

Utilities Electrical/Instrumentation Technician I

**TRAINING AND EXPERIENCE:**
Any combination of training and experience, which would provide the required knowledge and abilities, is qualifying. A typical way to obtain the knowledge and abilities is:
• High school graduation or tested equivalent to completion of the twelfth grade
• Three years of increasingly responsible work experience installing, maintaining and repairing a variety of electrical, electronic and control systems found in water treatment, wastewater treatment or heavy industrial processing plants

LICENSE & CERTIFICATION:
• Possession of a valid California Class C Driver’s License and a safe driving record
• Required to obtain Plant Maintenance Electrical/Instrumentation Technologist Grade I Certification from the California Water Environmental Association within 18 months of hire and maintain certification

OTHER REQUIREMENTS:
• Willingness to work nights, weekends, holidays and overtime as needed during emergencies or for critical repairs
• Experience with Wonderware Software

Utilities Electrical/Instrumentation Technician II

TRAINING AND EXPERIENCE:
Any combination of training and experience, which would provide the required knowledge and abilities, is qualifying. A typical way to obtain the knowledge and abilities is:
• High school graduation or tested equivalent
• Two years’ work experience in a position equivalent to City of Watsonville Utilities Electrical/Instrumentation Technician I

LICENSE & CERTIFICATION:
• Required to obtain Plant Maintenance Electrical / Instrumentation Technologist Grade II Certification from the California Water Environmental Association or equivalent certification and knowledge within 12 months of hire and maintain certification

SUPPLEMENTAL INFORMATION:

The candidate will be appointed for a 12-month probationary period. Names of successful candidates who do not receive a job offer will be placed on an employment list which normally remains effective for one year. The Human Resources Department may abolish an Employment list at any time the needs of the City so require. This position is represented by Operating Engineer Local 3 (OE3) Bargaining unit.

Prior to appointment to the position of Utilities Electrical/Instrumentation Technician I/II, a medical examination and Department of Justice Livescan fingerprinting will be required.

The City of Watsonville is an Equal Opportunity Employer and encourages workplace diversity. The City of Watsonville is committed to compliance with the Americans with Disabilities Act by including people with disabilities in all of its programs and activities.

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