CITY OF MARGATE, FLORIDA

JOB DESCRIPTION

JOB TITLE: DEES DEPARTMENT INTERN – UTILITY O&M

GENERAL STATEMENT OF JOB

The DEES Utilities Intern will gain hands-on experience in water and wastewater operations and maintenance through a project-based internship with the City of Margate's Utilities Division within the Department of Environmental and Engineering Services. Ideal for students in engineering, construction, or electronics, this internship offers exposure to utility systems, SCADA modernization, instrumentation, and AI-based pilot projects. Interns may assist with process design, pilot studies, and construction support. Interns will work with master electricians, technicians, mechanics, and project managers on SCADA systems, PLCs, instrumentation calibration, utility communication systems, and optimization of wastewater treatment processes.

ESSENTIAL FUNCTIONS

- Assist with utilities projects including SCADA upgrades, aeration basin design-build, system rehabilitations, and other capital improvements.
- Contribute to engineering documentation and reporting for ongoing capital and maintenance projects.
- Support the planning and execution of a pilot AI-based project to improve wastewater treatment plant operations.
- Participate in instrumentation setup and performance monitoring.
- Perform site visits and inspections for utility-related projects. Assist with field execution of water main rehab projects.
- Assist with basic repairs and diagnostics for communication and telemetry equipment used in utility operations.
- Learn to interpret as-builts, drawings, diagrams, schematics, and equipment manuals.
- Document maintenance activities, update records, and assist in preparing reports or materials orders.
- Observe and apply safety procedures and use of appropriate personal protective equipment in field environments.
- Gain an understanding of the way the DEES Department functions in the City of Margate.

MINIMUM TRAINING AND EXPERIENCE

- Currently enrolled in the final year of high school or enrolled in college and have completed a minimum of 10 college credits in engineering, construction management, environmental studies, mathematics, or a related field.
- Interest in water resources, engineering, municipal utilities, electricity, or instrumentation and controls.
- Ability to work independently and collaboratively on projects.
- Familiarity with basic hand tools, multimeters, and electrical safety practices is preferred.

MINIMUM QUALIFICATIONS OR STANDARDS REQUIRED TO PERFORM ESSENTIAL JOB FUNCTIONS

- Ability to operate a computer and various computer applications.
- Strong problem-solving and observational skills.
- Ability to understand and follow technical instructions and safety procedures.
- Willingness to work in both indoor and outdoor utility environments.

EXPECTED HOURS

- Expectation of working up to 40 hours per week.