

Title: Water Control Systems Program Integrator
PG: 56
Status: Civil Service
Position Reports to: Manager of Water Production
Department: Water Utilities

Class Code: 3152
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is a highly technical position responsible for specialized computer applications in support of the function of the Water Utilities Department's goals and objectives. Performance of essential functions of the position requires a background closely related to the functional responsibilities of the department combined with the technical dimensions associated with the computerized control systems for lime softening water treatment facilities. Work activities involve contact with the public, City officials and employees. It is imperative that it is understood that the water treatment facilities have to remain online and working over time hours is essential in maintaining plant reliability.

ESSENTIAL FUNCTIONS:

1. Maintains and monitors baseline data acquisition and process control hardware and software to insure the computer system is providing the desired results on the overall water treatment scheme.
2. Determines facility, equipment and supply requirements for data systems activities to facilitate analyses, reports, forecasts, estimates, computations, records maintenance and operational needs of the department.
3. Coordinates systems actions and plans with user agencies to ensure integrated programs.
4. Works in conjunction with the plant instrumentation/control technician, diagnose and trouble shoot hardware and software problems.
5. Designs, codes, debugs, and implements process control programs, graphic displays, operational reports, multi-user application software (database, spreadsheet, etc.) for use in a network.
6. Tests, analyzes, and maintains assigned computer systems and programs.
7. Identifies requirements, determines appropriate courses of action and organizes data to prepare various reports in support of existing or proposed policies.
8. Develops computerized solutions to business and operating needs of user departments using desktop spreadsheet, database and word processor systems, and interfacing between different databases and control systems.
9. Performs the implementation of new computer software packages and control systems.

ADDITIONAL RESPONSIBILITIES:

1. May formulate policies for the department utilizing both City requirements and sound research procedures; prepares correspondence and maintains detailed documentation of actions.
2. Provides individualized training to others in the use of computer based information retrieval and processing.
3. Supervises subordinate employees as directed.
4. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Knowledge of the operation principles and practices of a potable water treatment plant.
2. Thorough knowledge of two (2) or more current computer programming languages. Also, needs to be familiar with standard software packages and computer hardware. The programming languages should be currently in use by the City.
3. Thorough knowledge of the concepts of computer controlled analog and digital input/output subsystems in an industrial environment. Additionally, needs experience with the application

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and development of software performing ladder logic, report writing, graphics, and other related functions for the use in a water treatment plant.

3. Skill in operating micro-computer equipment.
4. Ability to plan, organize and coordinate the efforts of one or more employees in completing specified projects with little supervision.
5. Ability to perform in a functional capacity in relation to the employing department.
6. Ability to communicate effectively, both verbally and in writing, with employees and the public.
7. Ability to conduct department activities with competence, initiative and professionalism.
8. Ability to apply knowledge of computerized capabilities and processes to implement new vendor-supplied software packages.

WORKING ENVIRONMENT/CONDITIONS:

The working conditions requires sedentary work that involves walking or standing some of the time, exerting up to 10 pounds of force on a recurring basis, and routine keyboard operations.

The job risks exposure to some environmental hazards.

The job requires normal visual acuity, field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):

1. Graduation from an accredited four (4) year college or university with a Bachelor's degree in business, computer science or field related to the essential duties of the position or function of the department.
2. Three (3) years of experience in the general field for which the organization of assignment is responsible.
3. Training in common office and basic computer software, tools, and disciplines is preferred.
4. Three (3) years experience in performing the following functions is highly desirable:
 - a. Preparing and maintaining data using electronic systems.
 - b. Developing data collection and reporting programs.
 - c. Analyzing and auditing automated data reports.
 - d. Supervisory experience.
5. Previous experience in programming, control, and repair of SCADA systems is highly desired.
6. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted

SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida driver's license.
2. Must maintain a valid telephone number.
3. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.