

Title: Engineer I - Water
PG: 56
Status: Civil Service
Position Reports to: Engineering Supervisor
Department: Water Utilities

Class Code: 201815
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is entry level engineering work. An employee in this class demonstrates the application of engineering knowledge and skills in completing assigned projects or assisting on substantial portions of complex projects. Work is assigned with general instructions and objectives by a supervisor. Methods of procedure are outlined, but the employee has some latitude for independent judgement and action in planning details of work and in making technical decisions. Work performed is checked by an administrative superior or a higher level engineer.

ESSENTIAL FUNCTIONS:

1. Gathers and/or prepares data, specifications, engineering plans, diagrams, schematics, equipment/materials, and cost estimates for required aspects of projects and studies.
2. Provides project management and quality control of work done by parties associated with projects and studies.
3. Assists other divisions and City departments on multi-disciplinary projects and studies.
4. Prepares scopes of work for projects and studies.
5. Acts as a representative/liason with other utility and industry organizations involved in projects and studies.
6. Acts as a representative/liason with residential and commercial developers in all phases of the development.
7. Directs the efforts of an Engineering Technician and an Inspector assigned to facilitate the engineer's tasks.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Knowledge of fundamental and applied engineering sciences, principles, and practices.
2. Skill in the use of drafting software, engineering, and mathematical references and tables, charts, and computer equipment required in professional engineering work.
3. Ability to establish and maintain effective working relationships with technicians, inspectors, supervisors, associates, consultants, contractors, Utility field employees, and the general public.
4. Basic understanding of water and wastewater systems.
5. Basic understanding of Utility standards and policies as they relate to development projects.

WORKING ENVIRONMENT/CONDITIONS:

Requires sedentary and active 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 no significant environmental hazards.

The job requires normal visual acuity, and 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 degree in engineering science.

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2. An equivalent combination of education and experience which is determined to be directly related to the foregoing specific requirements may be substituted.

SPECIAL REQUIREMENTS:

1. Must possess a valid state of Florida driver's license. The employing division will indicate which class of license and/or endorsement is required.
2. Must maintain a valid home telephone number.
3. May be required to pass and maintain qualification for:
 - a. Respiratory Protection Physical
 - b. Pulmonary Function
 - c. Qualitative and Quantitative Fit Test(s)
4. 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.