

Title: Professional Engineer - Water
PG: 69
Status: Civil Service
Position Reports to: Engineering Supervisor
Department: Water Utilities

Class Code: 103115
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is a highly responsible supervisory level engineering position. An employee in this class is responsible for the performance of difficult and complex engineering design, operation and construction tasks associated with the planning and design of a variety of installations and related equipment. Duties will involve directing engineering and task forces engaged on major Water Utility projects assuming the role of project manager. In this capacity the employee will perform liaison duties with outside consultants and engineers. Work includes the preparation, review and acceptance of studies, reports, design, plans, specifications and estimates for the installation. The opportunity for independent judgment in planning the work and making technical decisions is required. Work is performed under general supervision of an administrative supervisor and is evaluated upon completion. Direction will be exercised over lower level engineers, technicians, and trades personnel.

ESSENTIAL FUNCTIONS:

1. Serves as a coordinator coordinates assigned functions and activities with other City departments and divisions, other governmental agencies, and private consultant engineers and contractors.
2. Prepares designs, plans, specifications, feasibility studies, evaluations, and cost studies for engineering projects.
3. Supervises personnel in the various phases of project management.
4. Performs studies on installed systems to determine proper performance and recommends changes to improve said performance.
5. Studies on operation of installed systems to identify proper operating procedures and to recommend improvements in those procedures.
6. Performs difficult or more complex engineering calculations and computer aided analysis for completion of designs.
7. Directs outside contractor's personnel and coordinates closely with other City personnel on construction projects.
8. Prepare estimates to indicate budgetary requirements for operating, maintenance, and construction purposes.
9. Performs research work related to a variety of engineering activities and prepares reports and recommendations setting forth the results of such research.
10. Applies the Professional Engineer's seal to designed projects and assumes the responsibilities of that process.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Extensive knowledge of fundamental and applied engineering science, engineering principles and practices applied in planning, location and design and as required for carrying out details of standardized design or assigned research.
2. Extensive knowledge of specific systems related to engineering areas of responsibility.
3. Extensive knowledge of statistical principles, applications and sampling techniques for use in data collection, interpolation and evaluation for planning and reporting.
4. Extensive skill in the use of drafting software and in the use of mathematical table required in professional engineering work.

Title: Professional Engineer - Water
PG: 69
Status: Civil Service
Position Reports to: Engineering Supervisor
Department: Water Utilities

Class Code: 103115
Date: 09/08

5. Skill in making complex engineering commutations and in designing difficult engineering projects.
6. Ability to prepare, interpret and review for acceptance engineering plans, specifications and reports.
7. Ability to conduct engineering research, write technical reports and give reliable advice on complex engineering problems.
8. Ability to establish and maintain effective working relationships with co-workers, other City employees the general public.
9. Ability to plan and direct the work of subordinate engineers and technicians.
10. Ability to direct project development and installation of equipment.

WORKING ENVIRONMENT/CONDITIONS:

Requires sedentary to 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 Civil Engineering, Electrical Engineering, or closely related field.
2. Five (5) years of experience in related engineering work.
3. Possession of a Professional Engineers registration in the State of Florida.
4. 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 a valid state of Florida driver's license.
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.