

Title: Engineer IV -LE
PG: 71
Status: Civil Service
Position Reports to: Designated Supervisor
Department: Lakeland Electric
Division: Production - Delivery

Class Code: 227020
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is a highly responsible 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 projects and studies needed to support the electric power facilities. Duties will involve directing engineering and task forces engaged in major facility projects and assuming the role of Project Manager. Independent judgment and action in planning details of work and in making technical decisions is required. Work is under the general direction of a supervisor and is evaluated upon completion.

ESSENTIAL FUNCTIONS:

1. Prepares scope of work for a given project including project management and quality control work to be done by other parties associated with the project.
2. Prepares specifications, engineering plans, diagrams, schematics, equipment/materials, and cost estimates for required aspects of projects and studies.
3. Provides project management and quality control of work done by parties associated with projects and studies.
4. May lead personnel from other divisions and City departments on cross-departmental projects and studies.
5. Leads other engineers and technicians on multi-disciplinary projects and studies.
6. Oversees contract maintenance and repair projects.
7. Investigates and analyzes operation and maintenance problems, both short term and future, to determine solutions.
8. Prepares feasibility studies and makes recommendations to improve the performance of systems and equipment.
9. Estimates costs for construction, including materials, labor and project management.
10. Reviews and ensures compliance with project schedules and budgets.
11. Acts as a representative/liaison with other utility and industry organizations involved in projects and studies.
12. Oversees the designs and/or implementation of significant modifications or improvements to electric power facilities.
13. Provides construction management and contract interface with construction crews, as needed, for major construction projects.
14. Develops and produces presentations on projects for department management.
15. Oversees filing and records system for projects from initiation to project close out.
16. Prepares complex forecasts, studies, technical reports, and related items.
17. Prepares cost estimates for equipment, materials, and labor, along with preliminary design work, in support of the budgeting process.
18. Provides direction for lower level engineering, technical and trades personnel.
19. Direct others in the operation and testing of equipment and controls, survey work, and non-destructive testing programs.

ADDITIONAL RESPONSIBILITIES:

1. Function as team leader, assigning, instructing and checking the work of others.
2. Performs related work as required.

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SUPERVISORY RESPONSIBILITIES:

1. Assumes supervisory responsibilities such as employee work assignments, performance appraisals, and addresses business and personnel difficulties for a small work group.
2. Supervises various engineers, technicians, and trades personnel in the various phases of project management. Also directs outside contractor's personnel and coordinates closely with other City personnel on construction projects.

KNOWLEDGE, SKILLS & ABILITIES:

1. Extensive knowledge of fundamental and applied engineering sciences, principles, and practices.
2. Extensive skill in the use of engineering, and mathematical references and tables, charts, and computer equipment required in professional engineering work.
3. Extensive knowledge of design and test codes, sources of technical information and safety requirements related to electric power facilities.
4. Considerable knowledge of permitting requirements for City, County, and State agencies.
5. Extensive knowledge of project expenditures and budgetary cost controls.
6. Highly capable of establishing and maintaining effective working relationships with supervisor, co-workers, consultants, other utilities, other City employees and the general public.
7. Extensive knowledge in the process of establishing contracts for the procurement of goods and services.
8. Ability to instruct others in the use of various portable test equipment and meters, and survey instruments and to perform engineering and surveying calculations.
9. Ability to read, understand and interpret, plans, specifications, technical reports, and engineering drawings.
10. Ability to instruct others in the performance of routine technical computations, making estimates, compiling statistical information, and performing analysis.
11. Highly capable of understanding, following, and/or transmitting complex oral and written instructions.
12. Highly capable self-starter, self-motivated, detail oriented, a team player and to be able to carry out assignments independently with only general oversight.
13. Highly capable of managing multiple projects simultaneously and in a proficient manner, while maintaining schedule flexibility as needed.
14. Ability to plan and direct the work of subordinate engineers and technicians.
15. Ability to direct project development and installation of equipment.
16. Extensive skill in evaluating the cost benefit of modifications and designs.

WORKING ENVIRONMENT/CONDITIONS:

Production, Environmental:

The job may require some physical work that involves walking, balancing, climbing ladders and stairs, climbing through manways, crawling, stooping, kneeling, stretching, reaching, pushing, pulling, crouching, bending or standing some of the time, exerting up to 40 pounds of force on a recurring basis, lifting up to 50 pounds, routine keyboard operations, operation of City vehicles. Work may include fieldwork as required at various job sites as well as to perform job duties in an office, power plant, railcar repair shop and outside environment.

The job risks exposure to extreme noise levels, dusts, pollen, bright/dim light, extreme cold and or heat, wet or humid conditions, fumes, noxious odors, extreme heights, chemical, biological,

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electrical and mechanical hazards. Employee may also have frequent exposure to the general hazards of the industrial working environment and construction sites. The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

Delivery:

Requires sedentary and active work that involves walking or standing some of the time, exerting up to 30 pounds of force on a recurring basis, and routine keyboard operations, operation of City general purpose vehicles (automobile or pick up truck), some job duties may be performed in an office environment while other duties may require field work at various outdoor job sites.

The job risks occasional exposure on to electrical or mechanical or chemical hazardous conditions, extreme noise levels, dusts pollen, bright or dim lights, extreme cold or heat, wet or humid conditions, fumes, noxious odors, and heights.

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

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):

1. Graduation from an accredited four (4) year college or university with a Bachelor of Science degree in engineering.
2. Six (6) years of experience in related engineering work.
3. A Professional Engineering License from the Florida State Board of Professional Engineers is preferred.
4. An equivalent combination of education and experience which is determined to be directly related to the foregoing specific requirements may be substituted.
5. Completion of City University Level two (2) or completion within twelve (12) months.

SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida driver's license.
2. Must maintain a valid home telephone number.
3. May be required to attend meetings at locations other than primary work location.
4. May be required to pass and maintain quality for:
 - a. Respiratory Protection Physical.
 - b. Pulmonary Function.
 - c. Qualitative and Quantitative Fit Test(s).
5. 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.