Class Code: 2012
Revised: 10/22/2008
Reviewed: 7/6/2021 & 10/31/24

ELECTRICAL ENGINEER III

NATURE AND PURPOSE OF WORK

Classification includes positions whose purpose is independent application of professional engineering standards to project design, construction, renovation, maintenance, and administration according to lawful codes and regulations affecting municipal facilities.

Employees of this classification apply knowledge of electrical engineering to problems and/or assignments requiring familiarity with the methods and materials of the electric and/or communications programs.

Incumbents work under the general direction of an engineering division supervisor, and may supervise positions, typically in the classes Engineering Aide, Engineer I and II.

ILLUSTRATIVE EXAMPLES OF WORK (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Analyzes problems, forecasts need for expansion, improvement and renovation. Prepares designs, specifications and bid packages for construction or renovation projects with great independence. Evaluates bids, administers contracts, and prepares change orders. Ascertains contractor and in-house compliance with applicable standards, codes or regulations.

Conducts or oversees inspection construction or reconstruction projects while underway. May authorize changes or departures from plans within established limits.

Prepares projections and forecasts for planning generation costs, fuel purchases, power sales, purchases, and transmission arrangements. Prepares projections of need for electric transmission/ distribution/system protection capability and designs additions/improvements.

Plans, designs, and administers construction of a communications system providing telephone, television, and data services to homes and businesses.

Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Knowledge of theory and practices of electrical engineering related to the area of assignment as obtained from an accredited college or university.

Knowledge of computer applications as required by area of assignment.

Thorough knowledge and understanding of applicable codes, regulations or legal standards for construction and renovation of municipal utility or public works facilities.

Considerable knowledge electric or communications system layout, function, characteristics and limitations.

Ability to read, understand and apply contracts, specifications, change orders, purchasing and funding procedures.

Ability to form and maintain effective working relationships with elected officials, public and employees.

NECESSARY QUALIFICATIONS

Bachelor of Science degree in Electrical Engineering from an accredited college or university, at least four years of service as an Engineer I and Engineer II, or the equivalent if in another jurisdiction, and registration as a Professional Engineer in the State of Louisiana. Non-residents must qualify for reciprocity by the Louisiana State Board of Registration for Professional Engineers.