

**CLASS SPECIFICATION****04-26-01****STREET LIGHTING ENGINEER, 7537**

**Summary of Duties:** A Street Lighting Engineer plans, organizes, and directs the work of professional, technical and administrative employees in a major division engaged in assessment processing or the preparation of plans, specifications, cost analyses, construction, cost estimates and testing related to the construction, reconstruction, operation maintenance and repair of a variety of municipal street lighting projects; applies sound supervisory principles and techniques in building and maintaining an effective workforce; fulfills equal employment opportunity responsibilities and does related work.

**Distinguishing Features:** Street lighting engineering encompasses the coordination of illumination engineering with electrical, civil, mechanical, transportation and architectural engineering. The work also requires the application of various methods of financing projects and knowledge of assessment law.

Street Lighting Engineers exercise technical engineering and managerial expertise in connection with the development, completion and administration of City street lighting programs. They are responsible for developing and evaluating alternative proposals in determining priorities and for securing effective performance from their staff to accomplish the goals and objectives of the Bureau. They participate with management in the formulation of policies. Street Lighting Engineers are responsible for completed designs, financial analyses and the final recommendations related to the operations under their supervision. An employee in this class presents proposals to management regarding a variety of street lighting issues. Assignments are received in terms of general directives and statements of policy. Street Lighting Engineers are responsible for developing and complying with specific work programs to achieve desired results.

**Examples of Duties:** A Street Lighting Engineer:

- directs and coordinates the activities of a major division of the Bureau of Street Lighting;
- assigns priority to the work on a variety of proposed lighting projects;
- supervises the investigation of need for utilitarian street lighting;
- resolves the more difficult design problems;
- reviews preliminary and final lighting plans and change orders for feasibility, design, compliance with standards and problems resolution;
- coordinates construction phases of projects with the work of the Bureau of Contract Administration;
- performs research and investigations in connection with difficult illumination problems;
- provides technical street lighting engineering advice;
- evaluates and recommends the use of new equipment and methods;

- consults with management on the formulation of street lighting policies;
- prepares bulletins and memoranda on street lighting procedures, standards and requirements;
- approves orders for the installation, modification or removal of utilitarian lighting;
- supervises the estimating of lighting maintenance costs, revenues and cash flow necessary to finance the operation, maintenance and replacement of the lighting system;
- provides assessment diagrams used to distribute the cost of constructing and maintaining lighting districts;
- provides information to the public and others on the status of various lighting projects;
- appears before citizen groups, City Council, Council committees, and the Board of Public Works about street lighting projects and activities;
- provides expert witness testimony;
- communicates equal employment opportunity information to employees;
- applies job-related criteria in selecting, orienting, assigning, training, counseling, evaluating and disciplining subordinates;
- assists employees in preparing for promotion in fulfillment of equal employment opportunity duties of a supervisor; and
- may be assigned other duties for training purposes or to meet technological changes or emergencies.

**Qualifications:** Incumbents must have the following knowledges and abilities:

Knowledge of:

- the principles, practices and standards of street and highway illumination;
- street lighting materials, equipment and circuit requirements of a variety of street lighting systems;
- the principles of civil, electrical, and illuminating engineering involved in the design, construction and operation of street and highway lighting;
- procedures and legal requirements involved in the establishment, construction and maintenance of lighting assessment districts;
- safety principles and practices;
- provisions of the American National Standard Practice of Roadway Lighting, Standard Specifications for Public Works Construction, and Bureau of Street Lighting Standards as related to design, construction, and maintenance of street lighting systems;
- organization, policies and functions of the Bureau of Street Lighting and its relationships working with other units of City government;
- supervisory principles and practices including planning, delegating, and controlling the work of subordinates;
- training, instructing and evaluating subordinate work performance;
- counseling, disciplining and motivating subordinate personnel;
- procedures for grievance handling;
- supervisory responsibility as set forth by equal employment opportunity principles and guidelines;
- laws and regulations related to equal employment opportunity;
- City personnel rules, policies, and procedures; and
- Memoranda of understanding as applied to subordinate personnel.

The ability to:

- plan, layout and coordinate the engineering work of a City-wide street lighting program;
- direct illuminating engineering and visibility studies and investigations;
- plan, direct and review the work of a group of engineering, administrative and technical employees;
- prepare clear and comprehensive technical reports, maps and records;
- deal tactfully and effectively with employees, officials and the public;
- provide administrative and technical supervision for a group of street lighting employees;
- establish and maintain a work environment to enhance both employee morale and productivity;
- apply supervisory principles and techniques; and
- fulfill supervisory equal employment opportunity responsibilities as indicated in City equal employment opportunity policies.

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Reasonable accommodation will be evaluated on an individual basis and depend, in part, on the specific requirements for the job, the limitations related to the disability, and the ability of the hiring department to accommodate the limitation.

**Minimum Requirements:**

Two years of full-time paid professional engineering experience at the level of Street Lighting Engineering Associate II is required.

Registration: Registration as a Professional Engineer with the California State Board of Registration for Civil and Professional Engineers is required for Street Lighting Engineer.

License: A valid California driver's license and a good driving record may be required.

**As provided in Civil Service Commission Rule 25 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what all of the duties, responsibilities, and required qualifications of any position shall be.**