

## DISTRIBUTION ENGINEER

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### DEFINITION

Under direction performs engineering duties in the utility power system areas of estimating, planning, general engineering design, and operations analysis, including the construction, maintenance and removal of utility facilities; provides technical assistance in the implementation of plans and programs and may work cross-divisionally and with external customers on various projects, providing technical guidance and information; and performs other related work as required.

### DISTINGUISHING FEATURES

This is the entry class in the professional engineering series involving electrical engineering work. The class differs from Electrical Engineer because the tasks assigned are less complex, and it does not have supervisory responsibility.

### EXAMPLES OF DUTIES

1. Assists in the preparation of plans, specifications and estimates for various electrical utility installations; researches project design requirements, determines applicable standards, performs engineering calculations and prepares estimates of time and material costs.
2. Assists in the performance of various feasibility studies; system planning; system protection; power quality analysis; transformer loading and voltage surveys; prepares estimates and feasibility reports for new or modified electrical transmission, distribution and substations projects.
3. Monitors system power factor reports; recommends capacitor installation and prepares capacitor control settings to maintain system power factor.
4. Prepares special conditions and technical specifications for electrical equipment to be purchased and recommends installation; writes and reviews material standards and operating procedures.
5. Reviews bids and proposals, recommending award of contracts and monitoring progress of capital improvement projects and professional services contracts.
6. Investigates field problems affecting property owners, contractors and maintenance operations; works with and provides guidance for the utility's customers in matters pertaining to system protection, demand control, and power factor correction.
7. Determines electrical requirements for service to special facilities, service upgrades, residential tracts and commercial developments; and obtains easements and right-of-ways for department facilities

### EMPLOYMENT STANDARDS

#### Education/Experience

Any combination equivalent to education and experience likely to provide the required knowledge and abilities. A typical way to obtain the knowledge and abilities would be:

Education: Graduation from an accredited four year college or university with major course work in electrical engineering, construction management and/or utility project management.

Experience: Construction project management and/or estimating is desirable, electrical emphasis preferred.

(OVER)

Knowledge of:

Electrical engineering principles and practices as applied to an electric utility; methods, materials and techniques used in the construction of electric transmission, distribution and substation projects; policies and regulations governing the construction, extension and maintenance of electrical utility facilities.

Ability to:

Prepare engineering plans and specifications; performing engineering computations; interpret and apply established policies, procedures and codes; interpret and apply governmental regulations; interpret computerized information and utilize computer equipment; use and learn computer programs for spreadsheet, database, word processing, engineering analysis and GIS data input; establish and maintain accurate records; maintain level of knowledge required for satisfactory job performance; communicate effectively orally and in writing, assimilate and understand information; establish and maintain effective working relationships with employees and the general public, maintain physical condition appropriate to the performance of assigned duties and responsibilities which may include walking, standing or sitting for extended periods of time.

Other Requirements

Possession of an Engineer-in-Training Certificate is desirable.

Possession of a valid California Driver's License and satisfactory driving record as a condition of initial and continued employment.

Human Resources Department