

**DUTY STATEMENT**

CEC-004 (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

Classification: Electrical Engineer	Position No. 430-3613-
CBID: R09	Office: Building Standards
Date Prepared: September 14, 2016	Division: Efficiency
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

The Electrical Engineer is under the direction and supervision of the Energy Commission Supervisor II (EFF) in the Building Standards Office of the Efficiency Division. The incumbent will perform field and office electrical engineering work necessary to identify opportunities for energy efficiency improvements in the electrical systems of residential and nonresidential buildings, and to evaluate the impacts of these improvements in terms of energy savings, climate change mitigation, installation and operating cost, cost effectiveness, water use, occupant comfort and building functionality as it relates to SB 350. The incumbent will perform, under direction, engineering tasks and prepare detailed energy efficient engineering analysis, technical studies and investigations for residential, nonresidential, and mixed-use building design, with a focus on multistory buildings.

WORKING CONDITIONS: The work is performed primarily in an office, conference room and hearing room environment. It may require standing and walking, as well as sitting for long periods of time. Some travel is required to attend off-site meetings or participate in meetings, workshops and hearings. Additional hours beyond an eight hour workday or 40-hour workweek may be required. While performing the duties described below, the incumbent will be required to work alone and/or in a team environment, using a personal computer and appropriate Energy Commission software such as word processing, electronic mail, WebEx and Internet browsers.

DUTIES AND RESPONSIBILITIES: The incumbent serves as a technical resource person to provide advice for development and adoption of residential and nonresidential energy efficiency building projects and makes recommendations on specific engineering problems to determine the societal costs and benefits of mandatory and voluntary “reach” standards.

- 30% Prepare or assist in preparing complete and comprehensive engineering reports that evaluate designs and specifications for the energy-using systems in multistory residential, nonresidential and mixed-use buildings, including interactive effects between building systems; evaluate streamlining opportunities for existing multistory building alterations and additions; and determine the engineering specifications required for building energy efficiency measures (i.e., lighting, power distribution, on-site generation and storage, HVAC, refrigeration, , and demand responsiveness of building systems) to be incorporated into calculation methods. Perform engineering evaluation of the economic impact and energy savings of alternative building designs to verify cost effectiveness of the measures for adoption of the Building Energy Efficiency Standards (Standards) in Title 24, Part 6. (E)
- 30% Perform engineering research work and analysis related to multistory residential, nonresidential and mixed-use buildings and recommend specific amendments for consideration and adoption into the Standards based on this research. Provide engineering support for the development of energy analysis computer programs used

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widely by the building industry, and conduct analysis to determine the engineering assumptions needed for new calculation methodologies and energy analysis computer programs which determine compliance with the Standards. (E)

- 10% Prepare complete responses to engineering correspondence and phone inquiries about building designs, drawings and specifications from building officials and the building industry requesting assistance in checking building plans. Provide engineering review of building plans for compliance with the energy efficiency standards. (E)
- 10% Serve as a technical resource person, provide professional engineering advice, and prepare and present expert witness testimony on complex building design questions and manage engineering contracts to develop building designs and specifications. (E)
Occasional travel may occur in order to perform this task. (M)
- 10% Develop and maintain working relationships with key industry stakeholders, and respond to requests for technical engineering assistance and information from the public, governmental agencies, utilities, and other organizations interested in energy efficiency policy, programs, and technologies. (E)
- 5% Organize, conduct and participate in workshops, hearings, conferences, briefings and training sessions. (M)
- 5% Perform other duties as required consistent with the specifications of this classification. (M)

SIGNATURES

I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position

<p>_____ Vacant Electrical Engineer</p>	<p>_____ Peter Strait Energy Commission Supervisor II (EFF)</p>
Date	Date