

**DUTY STATEMENT**

CEC-004 (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

Classification: Senior Electrical Engineer	Position No. 410-3600-xxx
CBID: R09	Office: Appliances and Outreach and Education
Date Prepared: January 9, 2018	Division: Efficiency
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

The Senior Electrical Engineer is under the general direction of the Energy Resource Specialist III (Managerial) in the Appliances and Outreach and Education Office of the Efficiency Division. The Senior Electrical Engineer is responsible for the most complex and difficult work related to electrical engineering analysis and reviews and guides the work of electrical engineers, including those employed and under contract to the Commission and provides expert electrical engineering consultation to management, commissioners and technical staff working on electrical engineering related issues. The incumbent provides electrical engineering leadership, review of electrical engineering work, and collaboration with electrical engineering experts that are responsible for testing, design compliance, appliance and lighting research and development under the EPIC program, and standards development to implement the Commission's appliance efficiency program.

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 conferences, 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:

30% Plan, organize, and provide high level engineering technical leadership, direction and coordination for electrical engineering analysis conducted to develop and implement new appliance efficiency standards for consumers electronics products, electrical systems, and lighting systems. Maintain expert knowledge and participate in related U.S. efficiency standards for commercial and non-commercial appliances. Collaborate with the International Electro-technical Commission, American National Standards Institute, IEEE, Illuminating Engineering Society, American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Canadian Standards Association, and other standards associations for appliances to implement energy saving strategies for California. Maintain expert knowledge and leadership for appliance rulemakings to maintain and create standards for the State of California. Maintain active contact with and provide guidance to electrical engineers at international firms designing and manufacturing appliances and equipment for sale in California and electrical engineers at international and U.S. test laboratories testing appliances as required by California law. Maintain ongoing knowledge and expertise in all aspects of appliances science related to energy efficiency, including close coordination with the Energy Commission's Electric Program Investment Charge

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- (EPIC) Program for appliances; identification and deployment of emerging technologies in appliances; development and implementation of test procedures, models for energy efficiency, enhanced energy efficiency measures and calculation algorithms, and appliance energy efficiency simulation programs to track appliance energy consumption and market trends. Maintain a high level of technical sophistication and knowledge of electromechanical systems and controls for energy and water using equipment and appliances. (E)
- 25% Plan, organize, and provide high level engineering technical leadership, direction and coordination for electrical engineering analysis conducted to implement and develop contracts, milestones, and schedules. Organize and identify necessary engineering work for the program. This includes appliance standards revisions, technical support for lighting, incorporation of federal efficiency standards and test methods, technical support for appliance testing contracts, and participation in federal rulemakings. Coordinate with the Buildings Standards Office to achieve lighting and plug-load reductions in new construction. Support the Energy Commission's efforts to achieve compliance and enforcement of the Appliance Efficiency Regulations. Conduct regulation impact assessments to introduce or revise minimum energy performance standards. Develop appliance energy rating algorithms and efficiency metrics to develop and revise performance and prescriptive standards. Assess the stringency of existing energy requirements and the need or lack of need for revision. Prepare and present engineering recommendations to commissioners related to appliance efficiency to aid policy decisions. (E)
- 20% Serve as the State's lead engineering representative performing the most difficult and complex work related to the electrical engineering analysis described above to advance the Commission's appliances program. Prepare technical responses for issues related to appliance standards. Serve as lead to engineering staff in analyzing and solving complex and difficult engineering problems. Review work of other engineers and provide guidance to resolve complex technical issues and problems. (E)
- 10% Plan, organize, and provide technical engineering leadership, direction and coordination for electrical engineering analysis conducted to develop and implement appliance standards, special projects, program and technology issues, and investigations regarding the technical, economic, and engineering feasibility of energy efficiency measures in California. (E)
- 5% As senior lead engineering representative, advise the Governor's Office, commissioners, executive management staff, legislative bodies, governmental entities, and appliance organizations on new appliance efficiency standards for consumers electronics products, revisions to the appliance standards, and developing and implementing appliance efficiency standards. (E)
- 5% As senior lead engineering representative, prepare and testify at Energy Commission workshops and hearings or on behalf of the Energy Commission before legislative bodies, governmental entities, and agencies on electrical engineering issues related to appliance efficiency. (E)
- 5% Perform other duties as required consistent with the specifications of this classification. (M)



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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

Vacant Senior Electrical Engineer	Kristen Driskell Energy Resource Specialist III (Managerial)