



JOB OPPORTUNITY BULLETIN

CLASSIFICATION:	Senior Electrical Engineer
TENURE:	Permanent
TIME BASE:	Full Time
SALARY:	\$8,978 - \$11,235
LOCATION:	Efficiency Division Appliances and Outreach and Education Office

FINAL FILING DATE: Until Filled

The California Energy Commission's Appliances and Outreach and Education Office is looking for a dynamic and highly motivated individual who is interested in helping Californians continue to have energy choices that are affordable, reliable, and environmentally acceptable. If you are looking to work for an organization that encourages creativity and supports a cooperative work environment, look no further. If you have excellent interpersonal, organizational and project management skills as well as excellent written and oral presentation skills, we encourage you to apply.

The Commission is a diverse, family-friendly organization. We are conveniently located at 1516 9th Street. For your convenience, monthly parking is available as well as quick access to Sacramento Rapid Transit (Light Rail). The full duty statement is available at <http://www.energy.ca.gov/careers/jobs.html>

DUTIES/RESPONSIBILITIES:

- 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 (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.
- 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.
- Serve as the State's lead engineering representative performing the most difficult and complex work



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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.

- 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.
- 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.
- 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.
- Perform other duties as required consistent with the specifications of this classification.

DESIRABLE EXPERIENCE/QUALIFICATIONS: The successful applicant should have:

- Knowledge of the Title 20 Appliance Efficiency Standards
- Knowledge of electrical engineering specifications for appliance efficiency measures
- Ability to communicate effectively and be able to relay complicated information in a simple, consumer-friendly manner
- Excellent interpersonal and team leadership skills
- Ability to work with other offices within the Division and other Divisions within the Commission on interdisciplinary projects
- Ability to effectively write and edit technical program information.

WHO MAY APPLY: Eligible candidates who are current state employees with status in the above classification or lateral transfers from an equivalent class, former state employees who can reinstate in this classification or persons who are reachable on a current employment list for this classification. Appointment is subject to the provisions of the SROA process: SROA / SURPLUS / REEMPLOYMENT candidates are encouraged to apply and must attach a copy of their status letter.

Interested applicants must submit a completed Standard State Application (Form STD. 678) with an original signature, to the contact/address listed below. Electronic applications will be accepted. **You must clearly indicate the basis of your eligibility (i.e., list, transfer, SROA/Surplus, reinstatement, etc.), RPA #410-306 and Position #535-410-3600-004 in the "Explanation Section" of the STD 678.** A separate application is required for each position. Resumes are welcomed but do not take the place of the completed State Application STD 678. Will consider a Training and Development (T&D) Assignment. Applications will be screened for experience and only the most qualified will be contacted for an interview. **NOTE: Failure to comply with the filing instructions and incomplete applications received will not be considered.**

***Please Note:** Possession of the minimum qualifications will be verified prior to the interview and/or appointment. If it is determined an applicant does not meet the minimum qualifications, the application may be forwarded to the State Personnel Board for review and the applicant's name may be removed from the eligibility list.*

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

SUBMIT APPLICATIONS TO:

Personnel Services Office
Attn: RPA #410-306
1516 9th Street, MS-3
Sacramento, CA 95814
Phone: 916-654-4305

California Relay (Telephone) Service for the Deaf or Hearing-Impaired
From hTDD Phones: 1-800-735-2929
From Voice Phones: 1-800-735-2922