



# JOB OPPORTUNITY BULLETIN

**CLASSIFICATION: ELECTRIC GENERATION SYSTEM SPECIALIST I**

**TENURE: PERMANENT**

**TIME BASE: FULL TIME**

**SALARY: \$7,058.00 - \$8,732.00**

**LOCATION: ENERGY GENERATION RESEARCH OFFICE  
ENERGY RESEARCH AND DEVELOPMENT DIVISION  
SACRAMENTO, CA**

**FINAL FILING DATE: UNTIL FILLED**

**DUTIES/RESPONSIBILITIES:** Under the direction and supervision of the Supervisor over the Renewables Team in the Energy Generation Research Office (EGRO), the incumbent serves as part of an interdisciplinary and/or interdivisional team to plan and implement RD&D projects that address technical barriers to renewable energy, distributed generation, other electricity generating technologies and transmission. The incumbent will address research issues affecting electric generation planning, design, operation, and integration of new energy technologies; assess the ability of new and emerging renewable and conventional generation technologies and other enabling technologies to be designed, developed, and deployed to meet the Renewable Portfolio Standards and greenhouse gas emission targets and goals; identify methods, models, and techniques to evaluate energy system impacts of renewable and conventional energy and distributed generation and make recommendations on effective integration strategies; assess the impacts of community-scale and utility-scale renewable energy technologies; develop, test, and field new computer models to determine the ideal characteristics, design, operation, and location for desirable new electric generation and/or renewable technologies; evaluate existing electric generation plans and technologies to determine technical and economic feasibility, and develop and publish scenarios detailing optimal configuration of new renewable resources and electric generation systems.

- Manage complex technical analysis, evaluations, field demonstrations and environmental tradeoffs of new and emerging renewable generation, distributed generation, and other energy technologies to conform to planning and operational elements of electric generation systems. Analyze, evaluate, design and implement complex generation system models to optimize hydrogeneration operations; provide information on engineering and economic studies of alternative electric generation methods and fuels that evaluate and assess the environmental factors (e.g., terrestrial biology, air quality, atmospheric warming and increased sea levels due to climate change, wildfire potential, etc.) affecting or being impacted by electricity production, distributed generation, storage and transmission; and evaluate alternative site plan scenarios for generation and transmission facilities. Evaluate and report on new electric or gas technologies and their impacts to present and future resource plans with the benefits, performance, reliability and capability to perform in electricity systems both as individual technologies, and within a larger portfolio of many different new technologies, at community-scale and utility-scale. Using the interpreting the output of computer models, the incumbent will evaluate the potential impacts of the new technologies on state mandated goals such as higher levels of electricity generation from renewable resources, reduction of greenhouse gas and regulated emissions from the energy sector, maintenance of reliable electricity delivery, reduction of natural gas use, and the need for emission reduction credits. Evaluate the economic consequences of generation costs to the electric utilities and members of the public

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- Lead the research, design and development projects that evaluate the environmental impacts of the existing and emerging electricity system and new renewable generation and distributed generation technologies. Review and evaluate project proposals to determine how well the project addresses the scope of the solicitation criteria including, but not limited to: the extent the project will advance science or technology, address market issues and needs, meet specified target goals and objectives; the skill and experience of the project team to carry out the technical tasks within budget and schedule, and move the results into the marketplace; the project's benefits to the state and the adequacy of the project funding. The incumbent prepared written findings of such evaluations for use by technical scoring committee. The incumbent briefs Office, Division, Commission management and Commissioners on the status of the projects.
- Review and edit reports, multiple-technology resource plans, contracts and other documents associated with the program. Establish and maintain project priorities, perform project evaluation, develop the work plans and budgets necessary to meet program and project goals.
- Consult with and advise the Energy Commission Supervisor II (TED), Energy Resources Specialist III, Division management and Commissioners and other agencies (as directed) on a variety of issues including biological impacts from the energy sector; impacts to and stability of the electric grid with respect to the changing climate; energy systems integration and research needs related to biological impacts, renewable energy, and distributed generation technologies and their application on the electricity generation systems. Participate in identification of issues and analytic methodologies. (E)
- Oversees the finalization of the most complex project reports, fact sheets, and other documents to disseminate research results and lessons learned to Energy Commission staff with a focus on transferring information that provides significant public benefits to California and meets the state's energy policies and goals. (E)

**DESIRABLE EXPERIENCE/QUALIFICATIONS:** The successful applicant should have:

- Excellent interpersonal skills. Ability to coordinate interdisciplinary projects.
- Ability to work under pressure effectively, both under supervision as well as independently, within a team environment and maintaining positive and constructive work relationships with others.
- Ability to effectively write and edit technical program information. Excellent analytical skills and the ability to reason logically and creatively while analyzing a variety of analytical techniques.

**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. **You must clearly indicate the basis of your eligibility (i.e., list, transfer, SROA/Surplus, reinstatement, etc.), RPA #350-227 and Position #535-320-4841-003 in the "Explanation Section" of the STD 678.** A separate application is required for each position.

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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.*

**SUBMIT APPLICATIONS TO:**

Personnel Services Office

Attn: RPA #320-227

1516 9<sup>th</sup> 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

[personnelservices@energy.ca.gov](mailto:personnelservices@energy.ca.gov)