STATE OF CALIFORNIA

DUTY STATEMENT
CEC-004 (Revised 2/2022)

Classification(s): Electric Generation System Program Specialist I

Working Title: Electric Generation System Program Specialist I

Position Number: 535-330-4847-002

Division/Branch: Energy Research & Development/Energy Systems Research

Collective Bargaining Identifier (CBID): R09

Work Week Group (WWG): E

Effective Date: August 2022

Conflict of Interest (COI): ☒ Yes ☐ No

If yes, this position is responsible for making or participating in the making of governmental decisions that may potentially have a material effect on personal financial interests. The appointee is required to complete Form 700 within 30 days of appointment, which identifies pertinent personal financial information.

Job Description

Under the general direction of the Energy Resources Specialist III (Manager), the Electric Generation System Program Specialist I (EGSPS I) independently plans, organizes, and conducts complicated analysis and demonstrates expertise in electric generation system planning program areas as it relates to transportation electrification and enabling technologies. With a high degree of skill, knowledge, and abilities above the journey person level the incumbent will provide technical, consultative and subject matter expertise and support in the development and advancement of electric vehicle technologies, vehicle-grid integration with the electricity grid, and other transportation-related research. Work cooperatively with other units in the division and other CEC transportation related programs to evaluate and oversee research, development, and deployment (RD&D) activities to develop and advance innovative technologies enabling the electricity system to meet greenhouse gas emission targets and goals while maintaining a reliable, efficient, and cost-effective system.

Essential Duties

40% As a principal subject matter expert, independently plan, organize, and conduct complex research and development, and analysis of zero-emission vehicle technologies, vehicle-grid integration strategies, and other transportation technologies; develops engineering and economic studies of innovative electric vehicle technologies; analyzes advanced electric load reducing options and the economic consequences of these options and impacts to the transportation sector, electric utilities, the California Independent System Operator (CAISO)
and California ratepayers; uses complex system models to evaluate and assess the performance, reliability, capability and achievable energy and cost savings and emissions reduction resulting from advanced transportation technologies; develops and analyzes impacts of vehicle-grid integration, their relationships to residential, commercial, and industrial infrastructure, and their impacts on California’s electricity grid; identifies research needs and gaps for plug-in electric vehicles and other alternatives in the transportation sector; analyzes and prepares research initiatives, plans and budgets to identify public interest energy research needs, benefits and impacts to the transportation sector, CAISO, ratepayers, utilities and others. Independently plan, organize, and conduct engineering economics and overall benefits assessments for the integration of new and emerging transportation and enabling technologies using existing and newly developed computer models. Advise Commissioners, management, staff, legislative bodies, and others on the results of completed engineering economics and cost-benefit studies, as well as on performance and cost effectiveness analyses of electricity systems showing the impact of integrating new and emerging technologies. Results of analyses will be inputs for the Energy Commission’s RD&D program annual reports.

30% Monitor emerging electricity and natural gas technologies and policies on state, federal, and international levels to identify innovative approaches and define research initiatives for a transportation electrification strategic plan and provide technical recommendations to improve existing RD&D programs. Ensure that information, analyses, and policy concerns in public interest research efforts are integrated with the Energy Commission’s policies and priorities.

15% Establish working relationships and arrangements with other experts in the academic community, government agencies, and private industry who measure the value of public and other funded research and development activities to learn from them and share the Energy Commission’s research results. Review, critique, integrate, and summarize work products prepared by others. Coordinate the organization and hosting of public workshops and symposiums to present research results, acceptance of the methodologies and processes developed, and the data collected to assess the value of Energy Commission-funded RD&D activities, and the impact on the California grid system.

10% Provide input to the Integrated Energy Policy Report (IEPR), investment plans, annual reports, and other Energy Commission reports, as necessary. This input may include the economic benefit and cost effectiveness analyses of transportation electrification technologies and evaluations of new technologies. Analysis will focus on new and emerging technologies that integrate electric vehicles or that may increase the penetration of transportation electrification, as well as on the net economic value of a variety of transportation-related RD&D technologies, programs, and activities, individually and collectively, to the overall California electricity supply.

Marginal Duties

5% Perform other duties as required, consistent with the specifications of the classification.

Working Conditions

The California Energy Commission offers a hybrid workplace model that is designed to support a distributed workforce of both office-based and remote-centric workers that relies on a high level of
telework. Limited-in person attendance and occasional travel may be required based on the needs of the division. Regular and consistent attendance - whether office-based or remote-centric - is essential to the successful performance in this position. This position is remote centered which means the incumbent works 50 percent or more of their time monthly from an alternate work location (i.e., teleworking).

**Diversity and Inclusion Statement**

As a state agency serving all Californians, the California Energy Commission is committed to being an organization that embodies diversity, equity, and inclusion. The Energy Commission plays an active and meaningful role in creating an environment that enables each employee to thrive.

**Employee’s Acknowledgement:** I certify that I am able to perform, with or without the assistance of a reasonable accommodation, the essential duties of this position.

**Employee’s Name (Print):** Vacant

**Employee’s Signature:** ___________________________  **Date:** ______________

**Supervisor’s Acknowledgment:** I certify this duty statement represents a current and accurate description of the essential functions of this position. I have discussed the duties of this position with and provided the above-named employee a copy of this duty statement.

**Supervisor’s Name (Print):** Reynaldo Gonzalez

**Supervisor’s Signature:** ___________________________  **Date:** ______________