STATE OF CALIFORNIA
DUTY STATEMENT
CEC-004 (Revised 2/2022)

Classification(s): Electric Generation System Specialist I
Working Title: Electric Generation System Specialist
Division/Office: Energy Research and Development/Energy Deployment and Market Facilitation
Collective Bargaining Identifier (CBID): R09
Work Week Group (WWG): 2
Effective Date: March 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 direction of the Electric Generation System Specialist III (Supervisor) and in consultation with the Technical Lead for the Energy Research Data Analytics unit in the Energy Deployment and Market Facilitation Office, the incumbent supports advancement of renewable energy and advanced generation technologies to meet the state’s energy policy objectives, including for decarbonization, energy affordability, and equity by supporting the overall planning, development and implementation of the Energy Commission’s R&D impact assessment framework at the full journeyperson level. The incumbent: 1) estimates the net economic benefits of the Energy Commission’s R&D investments in new renewable generation, storage, demand response, energy efficiency technologies and transportation for meeting the state’s energy and environmental goals and 2) facilitates the hand-off of new clean energy technologies funded by the Energy Research and Development Division into “market pull” programs such as rebates, codes and standards, and public procurement. Responsible for designing and implementing initiatives to facilitate adoption of advanced clean energy technologies, including new energy efficiency, energy storage, and distributed renewable technologies, that can enable zero-emission buildings and communities.

The incumbent performs responsible, varied and complex technical and analytical work in electric generation technology innovation planning and regulation. Determine: 1) how policy instruments are used and interact with one another to advance new energy technology innovations; 2) the value and intended impact of policy instruments in the various stages of new technology development; and 3) the methodologies to both quantitatively and qualitatively measure the intended impacts. Assesses the technical and economic performance of emerging clean energy technologies – both individually and collectively when deployed at various scales and identify
optimal technology portfolios. Coordinates and communicates with other agencies to facilitate the Energy Commission’s on-going role in implementing California’s clean energy programs within the Energy Research and Development Division.

**Essential Duties**

40% Conducts complex technical analysis to implement the R&D impact assessment framework. Provides consultative services on the feasibility, impact, or potential of a variety of projects or proposals. Performs assignments relating to engineering and economic studies of complex technical and analytical work in electric generation advanced technology planning and regulation; analyzes and evaluates the policy impacts of new technology development; develops methodologies to quantify new electric generation technologies and their relationship to present and future energy plans; and assesses technical and economic performance of emerging clean energy technologies. Research best practices and peer-reviewed literature on the value of public RD&D investments, both for the energy sector as well as broader technology sectors. Establishes working relationships with academia and government agencies to design methodologies – including specific metrics – to evaluate the value of public RD&D investments by the Energy Commission. Develops and implements data collection methods across the Division to create a repository of project and program outcomes.

15% Manage complex generation technology RD&D grant agreements implemented by the Commission’s research partners (such as startups, established firms, non-profit research institutions, and universities), including grant administration, collaboration facilitation, technical support, and analysis (e.g., engineering plans and designs of renewable and other advanced energy generation technologies and systems). Analyze technical performance and efficiency, including system components and materials, and the economics of engineering systems and project design. Establish and maintain project priorities by developing work plans, budgets, and amendments, and by evaluating and providing feedback on project activities and deliverables. Oversee grant fund expenditures by reviewing invoices. Review technical reports to ensure project findings and impacts are clearly communicated. Foster productive partnerships with contractors and recipients. Implement best practices in grant management.

15% Designs and implements initiatives to facilitate adoption of advanced clean energy technologies, including new energy efficiency, energy storage, and distributed renewable technologies, that can enable zero-emission buildings and communities. Evaluates the technical and economic performance of new energy technologies to drive the adoption of zero-emission buildings. Establishes working relationships and arrangements with other Energy Commission divisions, government agencies and private industry to identify stakeholder barriers to adoption of new energy technologies in the built environments and develop recommendations and initiatives to overcome those barriers.

15% Conducts complex detailed cost-performance modeling of new electric generation, storage and energy efficiency technologies to estimate the technology’s cost at scale. Compares the modeled cost-performance to competing solutions to determine the technology’s commercial viability.

Energy Commission reports, as necessary, on specific technical and economic milestones achieved by funded R&D projects and portfolio of projects. Provides input into these reports on the value and economic impact of the Energy Commission’s public RD&D programs.

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): ____________________________

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):

Supervisor’s Signature: Anthony Ng _______________________ Date: _____________