DUTY STATEMENT
CEC-004 (Revised 2/2022)

Classification: Electric Generation System Program Specialist II
Working Title: Resource Adequacy and Rates Principal
Position Number: 535-800-4848-003
Division/Office: Energy Assessments Division/Administration
Collective Bargaining Identifier (CBID): R09
Work Week Group (WWG): E
Effective Date: June 15, 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 Deputy Director of the Electricity Assessments Division, the EGSPS II is the technical advisor and most highly skilled practitioner, prime resource person, and innovator for the Deputy Director and Energy Commission (CEC) management for the assessment and analysis of California’s Resource Adequacy (RA) to support electricity generation and system reliability. The incumbent serves as Energy Commission’s the prime subject-matter expert on analytical issues associated with natural gas rates, electricity system costs, retail rates, and rate forecasting. The EGSPS II independently plans, organizes, and conducts the most complicated studies and leads informational proceedings related to regulatory and market changes needed to ensure adequate supply and support grid reliability, electricity system costs, and time-varying rate analysis. The incumbent provides expert witness testimony as well as technical and policy recommendations at Energy Commission and legislative hearings; interacts with high-level policy-makers, scientists, and technical experts; and represent the Energy Commission before other agencies. The incumbent serves as a project lead over other technical and analytic staff.

Essential Duties

40% Serves as the CEC’s prime subject matter expert and technical lead for the assessment and analysis of California’s Resource Adequacy. Attends, monitors, and reports on the California Public Utility Commission’s (CPUC’s) Resource Adequacy Proceeding to lead the CEC’s electricity generation resource adequacy and system reliability related modeling and analytical activities. This includes independently conducting extensive analysis and evaluation of proposed RA program rules’ ability to support cost-effective grid reliability and providing policy recommendations. The incumbent is responsible for the development and implementation of new analytical tools and methods needed to assess resource adequacy under the transition to decarbonize electricity generation while maintaining supply system (grid) reliability. Trains other staff on conducting RA assessments;
delegates RA modeling and analytical activities where appropriate and guides staff in the work. Provides written or oral summaries of RA activities as requested by the CPUC, CEC management, and Commissioners. Regularly coordinates with CPUC and the California Independent System Operator staff to ensure efficient implementation of program rules and resolve program design deficiencies.

30% Serves as the prime division-wide subject matter expert and technical lead for multiple rate analytic systems. This includes overseeing the analysis of natural gas rates, electricity system costs, electricity retail rates, electricity rate forecasting, and time-varying rates and overseeing the development of rate projections for the California Energy Demand Forecast and the Demand Scenarios Project supporting SB 100 analyses. Evaluates utility electricity supply portfolios and associated costs to assess incremental generation procurement costs for utilities. Quantifies the impact of utility transmission and distribution costs and revenue requirements on retail electricity rates. Uses mathematical, statistical, and econometric modeling techniques to develop forecasts of electricity generation power purchase prices (including energy, capacity, and renewable prices), to determine natural gas rates, and to design and implement methods for estimating projections of hourly system energy and capacity wholesale prices. Leads the development of analytical tools for processing inputs for and outputs from rate model simulations (using databases, excel spreadsheets, and other software tools) and leads documentation of the functionality and use of the analytical tools. Works closely with staff evaluating the transition to a zero-carbon economy, such as those requirements outlined in SB 100, and other exploratory scenarios to ensure economy-wide impacts and needs are considered in electricity and gas system modeling. Assesses transmission and distribution studies and data on costs to develop projections of revenue requirements and rate impacts associated with increased infrastructure investment needed to support decarbonization. Provides technical expertise and guidance, across divisions and state agencies, to lead studies, reports, papers, and presentations regarding the analysis of electricity system costs, rate impacts, and economic and energy market trends, and analyzes interactions with current policies in addition to informing future policy development of rates on decarbonization and related energy goals. Trains other staff in how to conduct rate analyses and projections; delegates rate modeling and analytical activities to junior staff where appropriate and guides their work.

20% Leads an interdisciplinary team and provides technical guidance and training to other Energy Commission technical leads in related areas. Advises on the design of SB 100 demand scenarios that analyze the impacts of time-varying rates and load flexibility. Advises on how electricity and gas rates may be impacted by electrification. Oversees assessments in related areas and identifies additional required data or analyses and provides quality assurance by investigating and identifying why actual model or analysis results may differ from expected model results.

Marginal Duties

10% Performs 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. Additional hours beyond an eight-hour workday or forty-hour workweek may be required. 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): Alecia Gutierrez
Supervisor’s Signature: ___________________________ Date: ____________