Classification(s): Mechanical Engineer
Working Title: Mechanical Engineer
Position Number: 770-3583-011
Division/Office: Siting, Transmission and Environmental Protection Division, Engineering Office
Collective Bargaining Identifier (CBID): R09
Work Week Group (WWG): 2
Effective Date: June 20, 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 Engineering Office Manager and the technical guidance of a Senior Mechanical Engineer, the Mechanical Engineer independently performs mechanical engineering, facility design, power plant efficiency and reliability, noise and vibration, hazardous materials management, and worker safety and fire protection analyses involved in the planning, siting, design, construction, and operation of power generation plants and related facilities. With training, the incumbent will perform mechanical engineering-related analyses of average difficulty and perform other related work. The incumbent may function as a member or a leader of an interdisciplinary team, or coordinate the efforts of representatives of various governmental agencies.

Essential Duties

30% Prepare analyses of facility design code compliance, hazardous materials management methods, worker safety and fire protection, noise and vibration impacts, mechanical equipment, pressure vessels, tanks, piping, power plant efficiency, battery energy storage systems and power plant reliability aspects of power plant Notices of Intent, Applications for Certification, and Small Power Plant Exemptions. The analyses are in the form of published staff assessments and written and oral technical testimony, which are presented at Commission hearings and discussed at public workshops. The analyses include evaluating facility design; potential impacts and appropriate mitigation measures; and determining the ability of the facility to comply with applicable laws, ordinances, regulations, and standards.
30% Conduct investigations of incidents and accidents at, and inspections of, power plants and ancillary facilities, and prepare reports and recommendations to ensure that proposed facilities are properly constructed and operated in accordance with Energy Commission certification requirements. Monitor construction and operation of licensed facilities to assure their conformance with licensing requirements.

10% Develop compliance monitoring requirements and verifications related to hazardous materials management methods, worker safety and fire protection, noise and vibration, and facility design to ensure that proposed facilities are properly constructed and operated in accordance with Energy Commission certification requirements. Monitor construction and operation of licensed facilities to assure their conformance with licensing requirements.

10% Review and evaluate the mechanical engineering and related aspects of hazardous materials management technologies and work safety and fire protection as applied to thermal power plants, battery energy storage systems and related facilities. This may include the evaluation of system and equipment design, performance and reliability, as well as alternatives to the proposed facility.

5% Evaluate the efficiency and reliability implications of energy generation, supply, and end use strategies as input to energy policy development.

5% Coordinate with other environmental, regulatory, and administrative agencies, universities, business organizations, and special interest groups to assure their input into Energy Commission or interagency programs.

5% Evaluate existing and proposed governmental laws, ordinances, regulations, standards, and policies as they pertain to power plant design.

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). Some travel is required to attend offsite meetings or to participate in workshops, hearings, and outdoor power plant site visits and inspections. Additional hours beyond an eight-hour workday or forty-hour workweek may be required.

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): Geoff Lesh
Supervisor’s Signature: ____________________________ Date: ______________