



JOB OPPORTUNITY BULLETIN

CLASSIFICATION: MECHANICAL ENGINEER

TENURE: PERMANENT

TIME BASE: FULL-TIME

SALARY: MECHANICAL ENGINEER

	\$5,098-\$6,078 (Range A)
	\$5,837-\$7,303 (Range B)
	\$6,751-\$8,447 (Range C)
	\$7,631-\$9,548 (Range D)

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

FINAL FILING DATE: June 15, 2018

DUTIES/RESPONSIBILITIES:

Under the direction of the Energy Resources Specialist III (Supervisor), the incumbent serves as part of an interdisciplinary team to plan and implement the Energy Research and Development Division's (ERDD) Natural Gas Research Program. The goal of the ERDD Program is to conduct energy research, development and demonstration (RD&D) to advance science and technologies not adequately provided by the regulated and competitive markets. The incumbent will use new and emerging monitoring tools, risk assessments and other tools to assess the integrity of the mechanical parts of the NG infrastructure such as pipelines and storage systems, and provide mechanical engineering expertise for all aspects of research that support increased safety and integrity of California's natural gas infrastructure. The incumbent will provide expertise that shapes research plans and will perform mechanical engineering work on assessing new and emerging technologies and systems that support increased natural gas system safety and integrity. The incumbent will work with an integrated team of engineers and scientists and provide mechanical systems expertise and technical advice. The incumbent will develop or review the designs, plans and specifications for mechanical systems and provide technical expertise on the expected operation, performance, specifications, and design limitations of these systems. The incumbent is knowledgeable of mechanical engineering concepts, technologies, and practices; performs time-critical and subject matter-critical technical or market analyses to support public interest energy RD&D funding; manages complex RD&D projects; and consults with experts in the field.

WORKING CONDITIONS:

The work is performed in an indoor office and meeting room setting involving sitting, standing, and walking. Travel is required to attend workshops, hearings and meetings. Additional hours beyond an eight-hour workday or forty-hour workweek may be required. While performing the duties described below, the incumbent will be required to work alone, work within a team, utilizing a personal computer and appropriate Energy Commission software such as the Microsoft suite of software, electronic mail and the Internet. The incumbent will be required to plan, organize, assist and/or participate in meetings with other Energy Commission staff, staff from other federal and state agencies, consultants, contractors, and other parties active in energy-related research and development.

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(Cont'd)**DUTIES AND RESPONSIBILITIES:**

- Provide technical and engineering assessments and reviews of new and emerging mechanical systems technologies for research efforts and demonstrations to inform California energy policy goals on the natural gas infrastructure. The incumbent will work with other team engineers and scientists to complete detailed mechanical system assessments of new technologies to ensure the proposed new technologies meet or exceed identified mechanical design specifications. The incumbent will evaluate these technologies for their expected technical performance and their mechanical systems efficiency improvements as compared to existing systems. Depending on the technology being addressed, the incumbent performs the mechanical systems engineering evaluations and/or reviews of the mechanical design, material science assessments, and other technical reviews to ensure the mechanical systems perform as expected based on the approved design drawings and engineering specifications. The incumbent will provide technical assistance to commission staff in analyzing engineering problems, in the preparation of integrated engineering studies, written reports and technical assessments. The incumbent will conduct field surveys, site visits and inspections of the mechanical systems that are part of ERDD-funded demonstrations to ensure field systems comply with mechanical system requirements and engineering specifications in ERDD grants
- Develop a short-, mid-, and long-term strategic research plan to coordinate NG infrastructure research activities particularly to identify research opportunities, and highlight successes and benefits in projects and annual reports. The incumbent also prepares research project plans, specifies research project tasks and estimates research budgets for research projects on mechanical systems, supporting natural gas system safety and integrity. The incumbent will analyze and evaluate research plans, specifications and estimates to meet various mechanical systems codes, safety orders and regulations governing the design and installation of equipment and apparatus, and other similar installations.
- Review 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 mechanical engineering designs or technologies, provide a sound engineering basis, 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 the adequacy of project funding. The incumbent will evaluate and comment on the technical strength, qualifications, and expertise of proposing contractor teams, quality of the proposing contractor's plans and deliverables. Prepare written findings of such evaluations for use by a technical scoring committee
- Develop a strategy to showcase the NG Infrastructure Safety and Integrity Research Program through public workshops, media events and print material. Consult and maintain cooperative relations with stakeholders including research organizations; state, federal and local government and utility representatives; private developers and technical experts to identify research and development opportunities of alternative and advanced energy technologies, systems or tools in California. Define, develop and implement projects that provide significant public benefits to California and meet the policy and technical objectives of the ERDD Program

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DESIRABLE EXPERIENCE/QUALIFICATIONS: The successful applicant should have:

- Excellent interpersonal skills and expected to work within a large team environment.
- Ability to communicate complicated information in a simple, consumer-friendly manner.
- Ability to coordinate interdisciplinary projects.

WHO MAY APPLY: All interested eligible persons are encouraged to apply. Applicants must have either transfer, list, reinstatement, or SROA/Surplus eligibility. Please indicate your eligibility for this classification on the state application form, STD. 678.

Training & Development Assignments may be considered.

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

SUBMIT APPLICATIONS TO:

Personnel Services Office
Attn: RPA #330-484
1516 9th 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

JOB OPPORTUNITY BULLETIN GUIDELINES

The Job Opportunity Bulletin must be completed in the order of statements. Below is an explanation of each statement and whether or not it is optional or required.

RECRUITMENT IS LIMITED TO EMPLOYEES OF THE CALIFORNIA ENERGY COMMISSION [OPTIONAL]. When the Commission is in a hiring freeze, all JOBS must include this statement. If, during a hiring freeze, the unit wishes external recruitment, approval to do so must be obtained in advance from the Executive Management Team.

CLASSIFICATION [REQUIRED]. Provide the full, civil service title of the position, spelling out the parenthetical if applicable (e.g., Associate Energy Specialist (Forecasting)).

TENURE [REQUIRED]. Provide either: Permanent, Limited-Term (include number of months) or Temporary (include number of months).

TENURE MAY BECOME PERMANENT IF THE CIRCUMSTANCES WHICH NECESSITATED THAT THE POSITION BE FILLED ON A LIMITED-TERM BASIS CHANGE AT A LATER DATE [OPTIONAL]. When circumstances necessitate a limited-term appointment, the originating unit may include this statement. However, please discuss the circumstances with your Personnel Analyst before including it on the J.O.B.

TIME BASE [REQUIRED]. Provide either: Full-time, Part-time (include fraction) or Intermittent (include number of anticipated monthly hours).

Will consider appointments less than full time [OPTIONAL]. If the originating unit will consider appointments to a time base less than the position's time base, this statement should be included on the JOB.

SALARY [REQUIRED]. Provide the salary range. Provide each range if there is more than one.

LOCATION [REQUIRED]. Provide only the office name and/or division name, and Sacramento, California.

FINAL FILING DATE [REQUIRED]. Leave blank. The final filing date will be determined by the Personnel Analyst.

DUTIES/RESPONSIBILITIES [REQUIRED]. Briefly describe the primary duties of the position (from the duty statement).

DESIRABLE EXPERIENCE/QUALIFICATIONS [REQUIRED]. Begin this section of the JOB with "The successful applicant should have," and briefly list the desirable, but not required, qualifications.

WHO MAY APPLY [REQUIRED]. Use the language provided. Also if the position is a Bargaining Unit 2 or Bargaining Unit 9 classification, add "This position is subject to the "Super SROA" provisions of the State Restriction of Appointment (SROA) process."

[For Energy Analyst positions only] Prior to appointment to this classification, applicants will be required to pass an energy-related written technical assessment test] [OPTIONAL]. All Energy Analyst JOBS must include this statement.

Training & Development Assignments may be considered [OPTIONAL]. If the originating unit wishes to consider Training and Development assignments, this statement must be added to the JOB.

Miscellaneous statements here [OPTIONAL]. Statement(s) which are not appropriate to put under the other headings on the JOB may be included here. For example, "A typing test will be given as part of the interview."

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO [REQUIRED]. Use the language provided. Insert the contact person's name, mailing address, and public and calnet phone numbers.