



JOB OPPORTUNITY BULLETIN

CLASSIFICATION:	Mechanical Engineer
TENURE:	Permanent
TIME BASE:	Full Time
SALARY:	A \$4,998.00 – \$5,959.00 B \$5,723.00 – \$7,160.00 C \$6,619.00 – \$8,281.00 D \$7,481.00 – \$9,361.00
LOCATION:	Efficiency Division, Building Standards Office
FINAL FILING DATE:	Until Filled

The Building Standards Office is responsible for the development of the Residential and Nonresidential Building Standards for newly constructed buildings and additions and alterations to existing buildings. If you are interested in using your knowledge and abilities to further construction practice in California to achieve the State's goal of Zero Net Energy newly constructed residential buildings by 2020 and nonresidential buildings by 2030 this is the job for you. This job opportunity is perfect for individuals interested in building performance computer modeling; energy efficiency measure cost-effectiveness; building practice changes needed to achieve Zero Net Energy construction; stakeholder engagement; and working with a team of highly motivated and knowledgeable building energy efficiency professionals.

The full duty statement is available at <http://www.energy.ca.gov/careers/jobs.html>.

DUTIES/RESPONSIBILITIES: The incumbent serves as a technical resource person to provide advice for development and adoption of residential and nonresidential energy efficiency building projects and makes recommendations on specific engineering problems to determine the societal costs and benefits of mandatory and voluntary "reach" standards.

- Prepare complete and comprehensive engineering reports, evaluate designs and specifications for components of the building envelope such as fenestration, walls, insulation, and roofing , determine the engineering specifications required for building energy efficiency measures (i.e., lighting, thermal mass) to be incorporated into calculation methods. Perform engineering evaluation of the economic impact and energy savings of alternative building designs to verify cost effectiveness of the measures for adoption of the Standards.
- Perform engineering research work and analysis related to improvements of the building envelope and recommend for consideration and adoption in the Standards. Provide engineering support to the development of energy analysis computer programs and to determine the engineering assumptions included in applications for approval of new calculation methodologies and energy analysis computer programs which determine compliance with the building performance standards used widely by the building industry.
- Prepare complete responses to engineering correspondence and phone inquiries about building designs, drawings and specifications from building officials and the building industry requesting assistance in checking building plans. Provide engineering review of building plans for compliance with the energy efficiency standards.
- Serve as a technical resource person and provide professional engineering advice and prepare and present expert witness testimony on complex building design questions and manage



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complex engineering contracts to develop building designs and specifications. Occasional travel may occur in order to perform this task.

- Develop and maintain working relationships with key industry stakeholders and respond to requests for technical engineering assistance and information from the public, governmental agencies, utilities, and other organizations interested in energy efficiency policy, programs, and technologies.
- Organize, conduct and participate in workshops, hearings, conferences, briefings and training sessions.
- Perform other duties as required consistent with the specifications of this classification.

DESIRABLE EXPERIENCE/QUALIFICATIONS: The successful applicant should have:

- Knowledge of the Building Energy Efficiency Standards for Residential and Nonresidential Buildings
- Knowledge of building simulation software
- Knowledge of the Alternative Calculation Methods (ACM) manual
- Knowledge of building energy modeling software
- Demonstrated ability to use a variety of analytical and research techniques to assist in evaluating and quantifying the effect of building energy efficiency measures, assist in resolving energy efficiency problems, develop and evaluate alternatives
- Ability to communicate ideas effectively; and
- Strong written and verbal communication skills

PLEASE NOTE: Possession of minimum qualifications will be verified prior to interview and/or appointment. If it is determined an applicant does not meet the minimum qualifications, the application may be forwarded to the State Personnel Board for review and the applicant's name may be removed from the eligibility list.

WHO MAY APPLY: Eligible candidates who are current state employees with status in the above classification or lateral transfers from an equivalent class, former state employees who can reinstate in this classification or persons who are reachable on a current employment list for this classification. Appointment is subject to the provisions of the SROA process: SROA / SURPLUS / REEMPLOYMENT candidates are encouraged to apply and must attach a copy of their status letter.

Interested applicants must submit a completed Standard State Application (Form STD. 678) with an original signature to the address listed below. Electronic applications will not be accepted. **You must clearly indicate the basis of your eligibility (i.e., list, transfer, SROA/Surplus, reemployment, reinstatement, etc.), RPA #430-155 and position number 430-3583-010 in the "Explanation Section" of the STD. 678.** Will consider a Training and Development (T&D) Assignment. Applications will be screened for experience and only the most qualified will be contacted for an interview.

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

SUBMIT APPLICATIONS TO:

Personnel Services Office
Attn: RPA #430-155
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

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.