Senior Mechanical Engineer
Class Code: 3579 – Exam Code: 7PB04

Department: Department of General Services
Opening Date: 8/18/17
Final Filing Date: Continuous
Type of Examination: Departmental Open
Salary: $10,301.00 - $12,892.00

**EQUAL EMPLOYMENT OPPORTUNITY**
The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right of family care and medical leave, gender, gender expression, gender identity, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, race, religious creed, sex (includes pregnancy, childbirth, breastfeeding, and related medical conditions), and sexual orientation.

**DRUG-FREE STATEMENT**
It is an objective of the State of California to achieve a drug-free State work place. Any applicant for State employment will be expected to behave in accordance with this objective, because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service, and the special trust placed in public servants.

**WHO SHOULD APPLY?**
Applicants who meet the Minimum Qualifications as stated on this bulletin may apply for and take this Training and Experience Evaluation at any time.

Once you have taken the Training and Experience Evaluation, you may not retake it for six (6) months.

**SPECIAL TESTING ARRANGEMENTS**
If you require special testing arrangements due to a verified disability, medical condition, or religious accommodation, please contact us.

If you have any questions, please contact the:

California Department of Human Resources
CalCareer Services at 1-866-844-8671
OR
California Relay Service at 7-1-1
Telecommunications Device for the Deaf (TTY) at (916) 654-6336*
TTY is a telecommunications device that is reachable only from telephones equipped with a TTY device.

**Eligible List Information**

An open, merged eligible list will be established by the California Department of Human Resources for use by the Department of General Services. The names of successful competitors will be merged onto the eligible list in order of final score regardless of test date. Eligibility expires twelve (12) months after it is established. Competitors must then retake the Training and Experience Evaluation to reestablish eligibility.

**Requirements for Admittance to the Examination**

**Note:** All applicants must meet the education and/or experience requirements as stated on this examination bulletin as of the date the test is taken.

**Minimum Qualifications**

**Typical Tasks**

Plans, organizes, assigns and checks work, gives instructions and assistance, evaluates performance, and makes technical decisions in connection with the supervision of the work of a group of designers and drafting technicians engaged in making complete designs, construction drawings, and specifications of major mechanical installations, such as heating and air conditioning, ventilation, refrigeration, plumbing, sewage collection systems, water supply and water purification systems, drainage systems, and steam generating plants; writes technical specifications; checks drawings and makes cost estimates of mechanical systems; makes detailed inspections of construction operations in the field; makes independent surveys covering installation, repair, and recommended improvements to mechanical systems; coordinates the work of engineers and contractors; dictates correspondence and prepares reports.

**Minimum Qualifications**

Experience: Five years of professional mechanical engineering experience, at least two years of which shall have been in design and inspection work in several of the fields discussed in "Typical Tasks" above, and comparable in responsibility to that of an Associate Mechanical Engineer in the California state service. and

Education: Equivalent to graduation from college with major work in mechanical engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.)

**Position Description**

Plans, organizes, assigns and checks work, gives instructions and assistance, evaluates performance, and makes technical decisions in connection with the supervision of the work of a group of designers and drafting technicians engaged in making complete designs, construction drawings, and specifications of major mechanical installations, such as heating and air conditioning, ventilation, refrigeration, plumbing, sewage collection systems, water supply and water purification systems, drainage systems, and steam generating plants; writes technical
specifications; checks drawings and makes cost estimates of mechanical systems; makes
detailed inspections of construction operations in the field; makes independent surveys covering
installation, repair, and recommended improvements to mechanical systems; coordinates the
work of engineers and contractors; dictates correspondence and prepares reports.

**EXAMINATION INFORMATION**

**TRAINING AND EXPERIENCE EVALUATION – Weighted 100%**
The examination will consist solely of a Training and Experience Evaluation. To obtain a position
on the eligible list, a minimum score of 70% must be received. An applicant will receive his/her
score upon completion of the Training and Experience Evaluation process.

To preview the Senior Mechanical Engineer Training and Experience Evaluation, select
Senior Mechanical Engineer preview examination.

**KNOWLEDGE AND ABILITIES**

**Knowledge of:**
Design of plans, specifications, and estimates for heating, ventilating, air-conditioning,
refrigeration, plumbing, sanitary, water, water purification and drainage systems, and steam
generating plants in common use; hydraulics pertaining to the design of water systems, pressure
tanks, sewer systems, and other similar installations; various codes and safety orders and
regulations governing the design and installation of mechanical equipment, including electric
motors; materials and maintenance costs in connection with mechanical installations; electrical
engineering as applied to motors in connection with air-conditioning, refrigeration, and blower
systems; principles of effective supervision; department's Affirmative Action Program objectives;
a manager's role in the Affirmative Action Program and the processes available to meet affirmative
action objectives.

**Ability to:**
Supervise the preparation of plans, specifications, and estimates for heating, ventilating, air
conditioning, refrigeration, plumbing, sanitary, water, water purification and drainage systems, and
steam generating plants in common use; plan and supervise the work of others; make field
inspections and surveys and prepare reports and recommendations; direct or inspect field
construction operations; check drawings and specifications; establish and maintain cooperative
relations with those contacted in the work; analyze situations accurately and adopt an effective
course of action; dictate correspondence and prepare reports; effectively contribute to the
department's affirmative action objectives.

**VETERANS’ PREFERENCE**
Veterans’ Preference will be granted for this examination. Effective January 1, 2014, in
accordance with Government Codes 18973.1 and 18973.5, whenever any veteran, widow or
widower of a veteran, or spouse of a 100 percent-disabled veteran achieves a passing score on
an open examination, he or she shall be ranked in the top rank of the resulting eligibility list. This
section shall not apply to any veteran who has been dishonorably discharged or released.

**CAREER CREDITS**
Career Credits will not be applied to the final score of competitors who are successful in this
examination.
CONTACT INFORMATION
If you have any questions concerning this announcement, please contact:

The California Department of Human Resources, Selections Division
1810 16th Street
Sacramento, CA 95811-7258
1-866-844-8671
California Relay Service: (7-1-1)
Telecommunications Device for the Deaf (TTY) (916) 654-6336
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GENERAL INFORMATION
If you meet the requirements stated on this examination bulletin, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described on this bulletin will be rated against a predetermined job-related rating, and all candidates who pass will be ranked according to their scores.

The California Department of Human Resources reserves the right to revise the examination plan to better meet the needs of the service, should the circumstances under which this examination was planned, change. Such revision will be in accordance with civil service laws and rules, and all competitors will be notified.

Candidates needing special testing arrangements due to a disability must mark the appropriate box on the application and contact the testing department.

Hiring Interview Scope: In a hiring interview, in addition to the scope described in this bulletin, the panel will consider education, experience, personal development, personal traits, and fitness. In appraising experience, more weight may be given to the breadth and recency of pertinent experience, and evidence of the candidate’s ability to accept and fulfill increasing responsibilities than to the length of his/her experience. Evaluation of a candidate’s personal development will include consideration of his/her recognition of his/her own training needs; his/her plans for self-development; and the progress he/she has made in his/her efforts toward self-development. For more information, you may refer to the Senior Mechanical Engineer classification specification.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, the ability to work cooperatively with others, and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history, and fingerprinting may be required.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) service-wide promotional, 5) departmental open, and 6) open.
When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

**Veterans’ Preference:** Effective January 1, 2014, in accordance with Government Codes 18973.1 and 18973.5, Veterans’ Preference will be awarded as follows: 1) Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an entrance examination, shall be ranked in the top rank of the resulting eligibility list. Any veteran who has been dishonorably discharged or released is not eligible for Veterans’ Preference. 2) An entrance examination is defined, under the law, as any open competitive examination. And 3) Veterans’ Preference is not granted once a person achieves permanent civil service status.

Veteran status is verified by the California Department of Human Resources (CalHR). Directions to apply for Veterans’ Preference are on the Veterans’ Preference Application (Std. Form 1093), which is available at CalHR's Veterans' Information webpage, and the Department of Veterans Affairs.

**Bulletin Revision date: 1/24/2022**

**FILING INSTRUCTIONS**
Click the link below to be directed to the Training and Experience Evaluation. Upon completion of the Training and Experience Evaluation, it will be instantly scored.

*Please remember to print a copy of your exam results for your records. It may take up to 5 business days for eligibility records to appear in your CalCareer profile.*

Select **Senior Mechanical Engineer Training and Experience Evaluation** to access this online examination.

**SUGGESTED RESOURCES TO HAVE AVAILABLE WHEN BEGINNING EVALUATION**

**Employment History:** Job Titles, organization name and addresses, name of supervisors or persons who can verify your job responsibilities, and phone numbers of listed persons.

**Education History:** Names of college courses that are relevant to the tasks listed in the evaluation.