



SENIOR EQUIPMENT ENGINEER

Departmental Promotional

Exam Code: 6TRAR

Department: Caltrans

Bulletin Release Date: October 15, 2016

Final Filing Date: October 31, 2016

Salary: \$8,810.00 to \$11,026.00

INTRODUCTION

Caltrans is pleased to announce the posting of the **Senior Equipment Engineer** examination. Employment from this examination will be offered in Caltrans Sacramento County.

Candidates may only establish eligibility in the location listed above.

EQUAL EMPLOYMENT OPPORTUNITY

Caltrans is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right to 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 work place. All applicants will be expected to behave in accordance with this objective, as 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?

This is a Departmental Promotional examination for Caltrans. Applicants must be:

- 1) A permanent civil service appointment with Caltrans as of the final filing date in order to participate in the examination; or
- 2) Have been employed with Caltrans within the last three years, without a break in State civil service; or
- 3) A current or former employee of the Legislature for two or more years as defined in Government Code §18990; or
- 4) A current or former non-elected exempt employee of the Executive Branch for two or more consecutive years as defined in Government Code §18992; or
- 5) A person retired from the United States military, honorably discharged from active military duty with a service-connected disability, or honorably discharged from active duty as defined in Government Code §18991. Persons applying who qualify as a Veteran under Government Code Section 18991 must submit a copy of their DD214 with their Examination Application (STD. 678).

FILING INSTRUCTIONS

[Applications \(STD 678\)](#) must be received or postmarked no later than the final filing date. FAXED OR E-MAILED APPLICATIONS WILL NOT BE ACCEPTED. THE EXAMINATION TITLE MUST BE INDICATED ON THE APPLICATION.

***FILE BY MAIL:**

**Caltrans
Examination Services (MS 86)
P.O. Box 168036
Sacramento, CA 95816-8036**

***FILE IN PERSON:**

**Caltrans
Examination Services (MS 86)
1727 30th Street, 1st Floor
Sacramento, CA 95816**

***Candidates are responsible for obtaining proof of mailing or submission of their application to Examination Services.**

POSITION STATEMENT

Under direction to have charge of varied and difficult engineering work involving supervision of associate engineers and others in the equipment department of the Division of Highways; and to do other related work.

ELIGIBLE LIST INFORMATION

A Departmental Promotional eligible list will be established for Caltrans in Sacramento County. Competitor's eligibility will expire 24 months after it is established unless the needs of the service and conditions of the list warrant a change in this period.

REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION

All applicants must meet the education and/or experience requirements for this examination by the final filing date. Your signature on the application indicates that you read, understand, and possess the minimum qualifications required, and that the information provided is true and complete to the best of your knowledge.

All applications must include: "to" and "from" dates (month/day/year), time base, civil service or private sector titles, the duties performed, and an original signature. Applications received without this information will be rejected.

NOTE: Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either I," "or II," "or III," etc. For example, candidates who possess qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirements.

Click on the link below to review the California State Personnel Board class specification which contain the requirements for admittance to the exam:

<http://calhr.ca.gov/state-hr-professionals/pages/3635.aspx>

MINIMUM QUALIFICATIONS

Either

Experience:

1. Two years of engineering experience in work primarily involving the use, care, and management of or the construction and repair of automotive or heavy construction equipment, equivalent in responsibility to that of an Associate Engineer in the California state service.

OR

2. Two years of experience performing the duties of an Associate Equipment Engineer, Equipment Engineer, Range D, Highway Equipment Superintendent I or II, or Highway Superintendent in the California state service.

AND

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

EXAMINATION INFORMATION

This examination will utilize an evaluation of each candidate's experience and education/training compared to a standard developed from the class specification. For this reason, it is especially important that each candidate take special care in accurately and completely filling out his or her application. List all experience relevant to the "Minimum Qualifications" shown on this announcement. Supplementary information will be accepted, but read the "Minimum Qualifications" carefully to see what kind of information will be useful to the staff doing the evaluation.

This examination will be weighted 100%. In order to obtain a position on the eligible list, a minimum score of 70% must be attained.

KNOWLEDGE AND ABILITIES

Knowledge of:

1. Various types, models, capacities, and operative characteristics of mobile equipment of the type used in highway work
2. Mobile equipment requirements for the department's fleet (e.g., highway maintenance and construction equipment, etc.)
3. Repair, improvement, and materials required in mobile equipment repair, improvement, and construction
4. Methods, tools, and materials required in mobile equipment repair, improvement, and construction
5. Equipment and mechanical engineering design
6. Salvage values of worn-out or obsolete equipment
7. Principles and techniques of personnel management and supervision
8. A manager's/supervisor's responsibility for promoting equal opportunity in hiring and employee development and promotion, and for maintaining a work environment that is free of discrimination and harassment
9. Mechanical engineering methods, materials, and equipment used in the design, fabrication, and maintenance of automotive and mobile equipment and their subsystems
10. Applicable provisions of Federal, State, and local mandates, laws, regulations and orders related to mobile equipment, including safety. [e.g., Occupational Safety and Health Administration (OSHA), American National Standards Institute (ANSI), American Welding Society (AWS), American Society for Testing and Materials (ASTM), the California Vehicle Code, Federal Motor Vehicle Safety Standards, Society of Automotive Engineers (SAE), etc.]
11. Quality management processes
12. Principles of project management
13. Equipment needs planning, procurement, and the delivery processes
14. Engineering and manufacturing principles and the work required to complete

- engineering and manufacturing tasks
15. Computer software programs (CAD/CAM, Microsoft Office applications, and Microsoft Project, Fleet Management, etc.)

Ability to:

1. Outline the design of machines or equipment for special use and supervise its construction
2. Determine equipment condition and when equipment should be retired
3. Prepare specifications for mobile equipment
4. Determine equipment requirements for various types of projects
5. Advise department programs on needs, used and care of equipment.
6. Direct the work of others
7. Analyze situations and technical issues accurately and adopt an effective course of action
8. Write correspondence, prepare reports, and give presentations
9. Effectively promote equal opportunity in employment and maintain a work Environment that free of discrimination and harassment
10. Plan, direct, and coordinate the work of a group of engineers and technicians on a variety of mobile equipment design and fabrication projects
11. Identify engineering design deficiencies and safety/liability concerns
12. Execute objective tests on equipment
13. Communicate effectively, both verbally and in writing
14. Use computer programs including spreadsheets, databases, and project management software
15. Provide leadership to staff and project teams
16. Develop and maintain cooperative working relationships
17. Visit job sites and inspect equipment for field testing
18. Adapt to changing priorities and complete projects with short notice
19. Analyze and interpret data and written material

ADDITIONAL DESIRABLE QUALIFICATIONS

Demonstrated supervisory ability and tact.

VETERANS' PREFERENCE

Veterans' Preference credits will not be granted in the examination as it does not meet the requirements to qualify for Veterans' Preference credit.

CAREER CREDITS

Career Credits will not be added to the final score of this examination.

CONTACT INFORMATION

For more information regarding this examination, please contact the examination analyst at (916) 227-6854.

GENERAL INFORMATION

For an examination without a written feature, it is the candidate's responsibility to contact **the testing department** three weeks after the final filing date if he/she has not received his/her notice.

Applications are available at <https://jobs.ca.gov/pdf/std678.pdf>, California Department of Human Resources (CalHR) offices, and local offices of the Employment Development Department.

If you meet the requirements stated on this bulletin, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

Caltrans reserves the right to revise the examination plan to better meet the needs of the service, if 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.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and 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) multi-departmental promotional, 4) service-wide promotional, 5) departmental open, 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.

Promotional Examinations Only: Competition is limited to employees who have a permanent civil service appointment and military veterans that meet all the minimum qualifications. Under certain circumstances, other employees may be allowed to compete under provisions of Rules 234, 235, and 235.2. State Personnel Board Rules 233, 234, 235, 235.2, and 237 contain provisions regarding civil service status and eligibility for promotional examinations.

TTY is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TTY Device.

For individuals with disabilities, this document may be available upon request in alternate formats. To obtain an alternate format, please call or write to Caltrans, Office of Examinations and Recruitment Services, P.O. Box 168036, MS 86, Sacramento, CA 95816. Voice (916) 227-7858 California Relay Service: Voice 1-800-735-2922 or TTY 1-800-734-2929.