



EQUIPMENT ENGINEER

Departmental Open

Exam Code: 7TR29

Department:	Caltrans
Bulletin Release Date:	April 19, 2017
Final Filing Date:	May 12, 2017
Salary:	\$4,998.00 to \$9361.00
Location:	Sacramento (Spot)

INTRODUCTION

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

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?

Candidates who meet the minimum qualifications as stated on this announcement may apply for this examination. Once you have taken the examination, you may not

reapply for twelve (12) months. All applicants must meet education and/or experience requirements as stated on this examination announcement.

FILING INSTRUCTIONS

Candidates are required to submit a Standard State Application (STD.678).

Applications (STD 678) must be received or postmarked no later than the final filing date. Dates printed on Mobile Bar Codes, such as the Quick Response (QR) Codes available at the USPS, are not considered Postmark dates, for determining timely filing of an application. 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

This is the entry, first working, and journey level of equipment engineering work in the Department of Transportation. Incumbents are assigned duties commensurate with their background, training, and experience. Under direction, incumbents perform a wide variety of shop and field equipment engineering in connection with mobile equipment design, fabrication, drafting specifications, and inspection work; may function as a lead person over the activities of other engineering and technician personnel; and do other related work.

ELIGIBLE LIST INFORMATION

A Departmental Open eligible list will be established for Caltrans in (all) Districts and Sacramento County. The list will be abolished 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/3639.aspx>

MINIMUM QUALIFICATIONS

Either I

Graduation from a four-year curriculum in a field related to equipment engineering accredited by the Accreditation Board for Engineering and Technology (ABET). (Registration as a Senior in such a curriculum will admit applicants to the examination, but they must produce evidence of graduation before they will be considered eligible for appointment.)

Or II

Possession of certification as an engineer-in-training issued by any United States state board of registration offering the National Council of Examiners for Engineering and Surveying (NCEES) exam. (Qualifying college/university education or work experience must be in a field related to equipment engineering).

EXAMINATION INFORMATION

It is anticipated that the Supplemental Application Questionnaire will be mailed in June 2017.

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

NOTE: If conditions warrant, this examination may utilize an evaluation of each candidate’s experience and education 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.

KNOWLEDGE AND ABILITIES

Knowledge of:

1. Engineering fundamentals and mathematics
2. Hydraulic, pneumatic, electrical, and power transmission systems on mobile equipment
3. Computer Aided Design & Drafting (CADD), Computer Aided Manufacturing (CAM), and other basic computer applications (i.e., word processing, spreadsheets, and databases)

Ability to:

1. Prepare plans, specifications, and estimates for mobile equipment systems
2. Do mechanical design work
3. Make correct computations
4. Create neat and accurate Computer Aided Design & Drafting and technical drawings
5. Specify proper equipment materials and components
6. Accurately interpret drawings and specifications
7. Determine required sizes for various vehicle components
8. Direct or inspect field fabrications by outside vendors or make field inspections and tests of mechanical installations
9. Check drawings and specifications
10. Establish and maintain cooperative relations with those contacted in the course of the work
11. Analyze equipment failures and/or issues accurately in order to provide effective solutions
12. Prepare written, verbal, visual and/or email correspondence
13. Make effective oral and written reports
14. Effectively operate computers and relevant applications
15. Perform product research and comparisons of mobile equipment and components
16. Determine how codes, safety orders, and governing regulations apply to mobile equipment

VETERANS' PREFERENCE

Veterans' Preference will be applied to those competitors who are successful in this examination and who qualify for, and have requested, Veterans' Preference through the California Department of Human Resources. Veterans who have achieved permanent civil service status are not eligible to receive Veterans' Preference.

SPECIAL PERSONAL CHARACTERISTICS

Must have the ability to physically climb on and under heavy mobile equipment to investigate, both in a shop environment and in the field. During all weather conditions and times.

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.

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

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.

Veterans' Preference: Pursuant to Assembly Bill 372, Veterans' Preference will be awarded as follows, starting January 1, 2014:

1. Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an open examination, shall be ranked in the top rank of the resulting eligibility list.
2. Any veteran who has been dishonorably discharged or released is not eligible for Veterans' Preference.
3. Veterans' Preference is not granted once a person achieves permanent civil service status (Permanent State civil service status means the status of an employee who is lawfully retained in his/her position after completion of the applicable probationary period. This includes permanent intermittent, part-time, and full-time appointments. In addition, individuals who at any time achieved permanent State civil service status and subsequently resigned or were dismissed from State civil service are not eligible to receive Veterans' Preference).

Veteran status is verified by the California Department of Human Resources (CalHR). Directions to apply for Veterans' Preference are on the Veterans' Preference Application (CalHR Form 1093) which is available at <https://jobs.ca.gov/Public/Jobs/Veterans.aspx>, CalHR, and the Department of Veterans Affairs.

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.