



## Senior and Supervising Telecommunications Engineer

Class Code: 3637 Exam Code: OPB41

Department(s): California Department of Human Resources  
Opening Date: 12/30/2010 1:32:00 PM  
Final Filing Date: Continuous  
Type of Examination: Servicewide Open  
Salary Information: Senior Telecommunications Engineer \$7726.00 - \$9389.00  
Supervising Telecommunications Engineer \$8,942.00 - \$10,324.00

### 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 6 months.

### SPECIAL TESTING ARRANGEMENTS

If you have a disability and/or need special testing arrangements you will be able to request a reasonable accommodation during the filing and self-scheduling process.

If you have questions, please contact:

California Department of Human Resources Selection Division  
1-866-844-8671  
California Relay Service (7-1-1)  
Telecommunications Device for the Deaf (TTY) (916) 654-6336

TTY is a telecommunications device that is reachable only from phones 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 other State departments. The names of successful competitors will be merged onto the eligible list in order of final score regardless of test date. Eligibility expires 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

### SENIOR TELECOMMUNICATIONS ENGINEER

Either I

Two years of experience performing the duties of an Associate Telecommunications Engineer.

Or II

Five years of engineering experience in the field of telecommunications which must have included three years in the design, construction, or maintenance of radio communications systems or wire communications systems.

AND

Education: Candidates applying under non-State requirements must meet the following education requirements: Equivalent to graduation from college with major work in electrical, electronic, or communications engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.) (A Master's Degree in Electrical Engineering with specialization in electronics or communications may be substituted for the required experience for Assistant Telecommunications Engineer. Applicants who are pursuing graduate work toward a master's degree will be admitted to the examination, but they must receive the degree before they will be considered for appointment.)

### SUPERVISING TELECOMMUNICATIONS ENGINEER

Either I

Two years of experience performing the duties of a Senior Telecommunications Engineer.

Or II

Broad and extensive experience (more than five years) in telecommunications planning and design, at least two years of which shall have involved the supervision of subordinates in the design, construction, operation or maintenance of major telecommunications systems.

AND

Education: Candidates applying under non-State requirements must meet the following education requirements: Equivalent to graduation from college with major work in electrical, electronic, or communications engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.) (A Master's Degree in Electrical Engineering with specialization in electronics or communications may be substituted

for the required experience for Assistant Telecommunications Engineer. Applicants who are pursuing graduate work toward a master's degree will be admitted to the examination, but they must receive the degree before they will be considered for appointment.)

## POSITION DESCRIPTION

### Senior Telecommunications Engineer

This is the first supervisory level of the series. Under general direction, incumbents plan and direct the work of a staff in an assigned program area; or as a non-supervisor, make telecommunication engineering surveys and studies of major statewide importance.

### Supervising Telecommunications Engineer

This is the second level supervisor and program manager level of the series; under general direction of the Division Chief, incumbents plan, organize and direct the work of major program area. This level is responsible for work of the highest level technical and professional engineering expertise performed in the division. As assigned, incumbents represent the division on departmental, agency or interagency committees or task forces. When assigned, incumbents act for the Chief in his/her absence.

## 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.

[Click here to preview the Training and Experience Evaluation](#)

## KNOWLEDGE AND ABILITIES

### Senior Telecommunications Engineer & Supervising Telecommunications Engineer

Knowledge of:

1. Electronics theory.
2. Engineering mathematics.
3. Principles, practices, methods, terminology and trends in wire communication systems engineering and mobile and microwave radio communications engineering including the fields of radio frequency allocations, electromagnetic wave propagation, radio field strength measurements and tolerances.
4. Theory and operation of telephone, data telegraph and teletype systems.
5. Engineering economics.
6. Federal Communications Commission rules and regulations.
7. Traffic handling procedures.
8. California State Communications Law and the Federal Communications Act of 1934.
9. Principles of personnel management and supervision.
10. Procedures used in hearings before regulatory bodies, methods of organization; and principles of budgeting.
11. Department's Affirmative Action Program objectives.
12. A manager's role in the Affirmative Action Program and the processes available to meet affirmative action objectives.

Ability to:

1. Perform radio and electronic research projects.
2. Prepare engineering reports and surveys.
3. Design.
4. Write specifications and make final engineering recommendations on various radio and wire communications systems.
5. Analyze technical data.
6. Establish and maintain cooperative relations with those contacted in the work.
7. Interpret and apply provisions of the California State Communications Act and the Federal Communications Act of 1934.
8. Apply knowledge of wire communications systems to the communications problems of State agencies.
9. Secure a valid second class or higher radio-telephone operator license issued by the Federal Communications Commission when such license is or will be necessary for performance of the assigned work.
10. Plan, organize and direct the work of a group of telecommunications engineers.
11. Effectively contribute to the department's affirmative action objectives.

Willingness to:

1. Travel throughout the State.
2. Tact and reliability.

#### 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 added to the final score for this exam, because it does not meet the requirements to qualify for Career Credits.

#### CONTACT INFORMATION

If you have any questions concerning this announcement, please contact:

The California Department of Human Resources Selection Division  
1515 S Street, North Building, Suite 400  
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

**For an examination with 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.

**]If a candidate's notice** of written test fails to reach him/her 3 days prior to their scheduled appointment., he/she

must contact CalHR at 1-866-844-8671.

**Examination Locations:** When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. However, locations may be limited or extended as conditions warrant.

**Applications are available** at [www.jobs.ca.gov](http://www.jobs.ca.gov) and local offices of the Employment Development Department.

**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 (CalHR)** 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 classification specification [link to class spec.](#)

**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) multi-departmental 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 <http://jobs.ca.gov/Job/VeteransInformation>, and the Department of Veterans Affairs.

**Bulletin Revision Date: 1/20/2015**

## TAKING THE EXAM

When you click the link below, you will be directed to the Training and Experience Evaluation. At the end of the Training and Experience Evaluation, it will be instantly scored.

[Click here to go to the Training and Experience Evaluation.](#)

Additionally, if you have a disability please select the “Reasonable Accommodations” box during the self-scheduling process.

## FILING INSTRUCTIONS

**Final Filing Date:** Continuous