



## Senior Structural Engineer

**Exam Code: 7PB41**

**Department:** Department of General Services &  
Department of Corrections &  
Rehabilitation

**Exam Type:** Departmental Open

**Final Filing Date:** Continuous

### CLASSIFICATION DETAILS

**Senior Structural Engineer**– \$10,200.00 - \$12,798.00 per month

View [the Senior Structural Engineer classification specification](#)

### APPLICATION INSTRUCTIONS

Final Filing Date: Continuous

#### **Who Should Apply:**

Applicants who meet the minimum qualifications as stated on this bulletin may apply for and take this examination.

Once you have taken this examination, you may not retake it for **twelve (12)** months.

#### **How To Apply:**

The link to connect to the Training and Experience Evaluation is located farther down on this bulletin in the “Taking the Exam” section.

#### **Special Testing Arrangements:**

If you require assistance or alternative testing arrangements due to a disability, please contact the testing department listed in the Contact Information section of this bulletin.

### MINIMUM QUALIFICATIONS

All applicants must meet the education and/or experience requirements as stated on this exam bulletin to be accepted into the examination. Part-time or full-time jobs,

regardless of whether paid or volunteer positions, and inside or outside California state service will count toward experience.

### **Senior Structural Engineer**

Possession of a valid certificate to use the title of "Structural Engineer" under the statutes regulating the practice of civil engineering in California.

**AND**

**Experience:** Five years of experience in structural engineering work involving the performance of increasingly complex duties, two years of which shall have been in charge of the structural design of major buildings.

**AND**

**Education:** Equivalent to graduation from college with major work in civil or architectural engineering.

(Additional qualifying experience may be substituted for the required education on a year- for-year basis.)

## **POSITION DESCRIPTION**

### **Senior Structural Engineer**

A Senior Structural Engineer does the more difficult types of structural engineering work involved in the review of the design of major buildings, such as school buildings, essential service buildings and other structures. Examine plans of important public buildings to determine their ability to withstand earthquake or wind and to safely carry such loads as may be imposed. Visits work under construction to determine whether materials and workmanship comply with the plans and specifications and passes upon the adequacy of inspection provided for the job; examines existing buildings for structural integrity at the request of state and local agencies; gives consulting assistance to architects, structural engineers, contractors, and school authorities regarding approval or disapproval of the work and interpretation of the requirements set up by the State; checks designs, specifications, and drawings; investigates foundation conditions for major buildings and other structures. Offers peer review of outside consultants and Division of State Architect plan reviewers.

Positions are located statewide.

## **EXAMINATION SCOPE**

This examination consists of the following components:

**Training and Experience Evaluation – Weighted 100% of the final score.**

The examination consists solely of a **Training and Experience Evaluation**. To obtain a position on the eligible list, a minimum score of 70% must be received. Applicants will receive their score upon completion of the Training and Experience Evaluation process.

In addition to evaluating applicants' relative knowledge, skills, and ability, as demonstrated by quality and breadth of education and/or experience, emphasis in each

exam component will be measuring competitively, relative job demands, each applicant's:

### **Knowledge and Abilities**

#### **Senior Structural Engineer**

**Knowledge of:** Graphostatics and stress analysis; strength, use, and properties of the materials of building construction; standard specifications, loadings, and building codes applying to buildings and other structures; principles of effective supervision and directing the work of others.

**Ability to:** Direct the work of others; inspect and judge the quality of structural engineering work in the office and field; analyze situations accurately and adopt an effective course of action; write clear and accurate reports and technical specifications.

## **ELIGIBLE LIST INFORMATION**

An open eligible list for the **Senior Structural Engineer** classification will be established 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 exam date. Eligibility expires **twelve (12) months** after it is established. Applicants must then retake the examination to reestablish eligibility.

Veterans' Preference will be granted for this examination. In accordance with Government Codes 18973.1 and 18973.5, whenever any veteran, or widow or widower of a veteran achieves a passing score on an open examination, he or she shall be ranked in the top rank of the resulting eligible list.

Veterans status is verified by the California Department of Human Resources (CalHR). Information on this program and [the Veterans' Preference Application](#) (Std. form 1093) is available online. Additional information on veteran benefits is available at the Department of Veterans Affairs.

Career Credits **will be** applied to state employees' final passing score who have obtained permanent civil service status with the state of California.

## **EXAMINATION INFORMATION**

**This bulletin does not have a preview exam**

## **PREPARING FOR THE EXAMINATION**

Here is a list of suggested resources to have available prior to taking the exam.

**Employment History:** Employment dates, job titles, organization names and addresses, names of supervisors or persons who can verify your job responsibilities, and phone numbers of persons listed above.

**Education:** School names and addresses, degrees earned, dates attended, courses taken (verifiable on a transcript), persons or office who can verify education, and phone numbers of persons or offices listed above.

**Training:** Class titles, certifications received, names of persons who can verify your training, and phone numbers of persons listed above.

## TAKING THE EXAMINATION

Take [the Senior Structural Engineer examination](#)

## TESTING DEPARTMENTS

State of California (all State of California departments)

## CONTACT INFORMATION

If you have any **technical** questions concerning this examination bulletin, please contact:

California Department of Human Resources  
Attn: Examination Services  
1515 S Street  
Sacramento, CA 95811  
Phone: 1-866-844-8671  
California Relay Service: 1-800-735-2929 (TTY), 1-800-735-2922 (Voice)

If you have any administrative questions concerning this examination bulletin, including provision of reasonable accommodation for this testing process, please contact:

California Department of General Services  
Office of Human Resources  
Mailing address: P.O. BOX 989052  
West Sacramento, CA 95798-9052

Street Address: 707 Third Street, 7th Floor  
West Sacramento, CA 95605  
Phone: 916-376-5400

California Relay Service: (7-1-1)  
Telecommunications Device for the Deaf (TTY) (916) 654-6336

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

## EQUAL OPPORTUNITY EMPLOYER

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

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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.

## **GENERAL INFORMATION**

Examination and/or Employment Application (STD 678) forms are available at the California Department of Human Resources, local offices of the Employment Development Department, and through your [CalCareer Account](#).

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 in this bulletin will be rated against a predetermined job-related rating, and all applicants who pass will be ranked according to their score.

The Department of General Services 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 applicants will be notified.

**General Qualifications:** Applicants must possess essential personal qualifications including integrity, initiative, dependability, good judgement, 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) servicewide 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.

**High School Equivalence:** Equivalence to completion of the 12<sup>th</sup> grade may be demonstrated in any one of the following ways: 1) passing the General Education

Development (GED) Test; 2) completion of 12 semester units of college-level work; 3) certification from the State Department of Education, a local school board, or high school authorities that the competitor is considered to have education equivalent to graduation from high school; or 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.