



State of California  
Department of Conservation

**Engineering Geologist  
5699 – 3756 – 9PB02**

Department(s): Department of Conservation  
Department of Water Resources  
Opening Date: 9/22/2009  
Final Filing Date: Continuous  
Type of Examination: Multi-departmental Open  
Salary: Monthly-Ranged-Salary - \$5,098.00 to \$9,597.00  
Tenure/Time-base: Permanent Full-time  
Permanent Part-time  
Permanent Intermittent  
Limited Term Full-time  
Limited Term Part-Time  
Limited Term Intermittent

**EEO**

An equal opportunity employer to all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age, or 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 examination at any time.

Once you have taken the examination, you may not retake it for six (6) months.

**FILING INSTRUCTIONS**

**Final Filing Date:** Continuous

**Where to Apply:** Click the link at the bottom of this bulletin.

**SPECIAL TESTING ARRANGEMENTS**

If you have a disability and need special assistance or special testing arrangements, contact the State Personnel Board, Examinations Unit at (866) 844-8671, TTY (916) 654-6336, or via the California Relay Service for the Deaf or Hard of Hearing at (800) 735-2929 from TTY Phones, or at (800) 735-2922 from voice phones.

**SALARY INFORMATION**

Monthly Ranged Salary \$5,098.00 to \$9,597.00

**ELIGIBLE LIST INFORMATION**

An open, merged eligible list will be established by the State Personnel Board for use by the Department

of Water Resources and the Department of Conservation. 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 retest to reestablish eligibility. Once you have taken the Training and Experience examination, you may not retake it for six (6) months.

## 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

**Education:** Equivalent to graduation from college with major work in geology, engineering geology, or a closely related field that includes coursework in geology. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.) (Registration as a senior in a recognized institution will admit applicants to the Engineering Geologist examination, but they must produce evidence of graduation or its equivalent before they can be considered eligible for appointment.)

## POSITION DESCRIPTION

Engineering Geologist positions in the Department of Water Resources and Department of Conservation generally fall into two areas of work: engineering geology or groundwater.

An Engineering Geologist performing engineering geology work conducts investigations for the purpose of obtaining the necessary geologic data for the planning, design, and construction of dams and water conveyance facilities. The Engineering Geologist characterizes soil and rock for the purpose of engineering analysis and assists in determining its suitability as foundation for civil structures and for construction materials. The Engineering Geologist performs seismic hazard analyses for the design and re-evaluation of dams and water conveyance facilities. The Engineering Geologist prepares maps, cross-sections, and reports to communicate the results of these investigations.

An Engineering Geologist working in groundwater investigates the sequence, structure, and other properties of geologic materials with respect to water supply, water quality, groundwater flow, and groundwater surface water interaction; evaluates geologic and hydrogeologic data to determine aquifer characteristics, groundwater occurrence and availability, temporal trends, and groundwater basin budgets. The Engineering Geologist reviews and prepares reports, work plans, and data for groundwater studies and conjunctive use projects; develops and reviews groundwater monitoring programs, analyzes hydrogeologic data, and conducts or oversees field investigations including installing monitoring wells, conducting pumping tests, and collecting groundwater samples and water level measurements.

**Positions exist statewide with the Department of Water Resources and Department of Conservation.**

## 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

**Knowledge of:** Stratigraphic, structural, historical, and economic geology as related to civil engineering projects; geological processes and survey techniques, equipment, and procedures; fundamental principles of mineralogy, petrography, soil mechanics, and hydrogeology; photogeology, geological mapping and drafting, and the application of geology to engineering problems; grouting methods,

techniques, and equipment; geological literature; and subsurface exploration and sampling procedures. **Ability to:** Conduct geological and geophysical exploration investigations; conduct independent technical research work; make, record, and evaluate observations on geological engineering problems; make accurate tests, observations, and measurements; analyze situations accurately and take effective action; and prepare and analyze technical reports.

### VETERANS' PREFERENCE POINTS

Veterans' Preference Points will be added to the final score of all competitors who are successful in this examination, and who qualify for, and have requested, these points through the State Personnel Board. Due to changes in the law, effective January 1, 1996, veterans who have achieved permanent civil service status are not eligible to receive Veterans' Preference Points.

### 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:  
Department of Water Resources: (916) 445-3488  
Department of Conservation: (916) 322-7685  
California Relay Service: 1-800-735-2929 (TTY), 1-800-735-2922 (Voice)

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

### GENERAL INFORMATION

**Applications are available** at [www.jobs.ca.gov](http://www.jobs.ca.gov), State Personnel Board offices, 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 State Personnel Board** 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 [here](#).

**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 Points:** California Law (Government Code 18971-18978) allows the granting of Veterans' Preference Points in open entrance and open, non-promotional entrance examinations. Veterans' Preference Points will be added to the final score of all competitors who are successful in these types of examinations, and who qualify for, and have requested by mail, these points. **In open (only)** entrance examinations, Veterans' Preference Points are granted as follows: 10 points for veterans, widows and widowers of veterans, and spouses of 100% disabled veterans (5 points for widows, widowers, and spouses if the veteran was in the National Guard); and 15 points for disabled veterans. **In open, non-promotional** entrance examinations, Veterans' Preference Points are granted as follows: 10 points for veterans, and 15 points for disabled veterans. Employees who have achieved permanent State civil service status are not eligible to receive Veterans' Preference Points. "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 Points. Veteran status is verified by the State Personnel Board (SPB). Directions to apply for Veterans' Preference Points are on the Veterans' Preference Application (Std. Form 1093), which is available at [www.spb.ca.gov](http://www.spb.ca.gov) or from the State Personnel Board, 801 Capitol Mall, Sacramento, CA 95814, and the Department of Veterans Affairs.

#### **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.](#)**