



California Department of
Toxic Substances Control

California Department of Toxic Substances Control
Engineering Geologist
G999 – 3756 – 3PB47

Department(s): California Department of Toxic Substances Control
Opening Date: 2/12/2014
Final Filing Date: Continuous
Type of Examination: Departmental Open
Salary: Monthly Ranged Salary - \$4608.00 to \$8675.00

EEO

An equal opportunity employer to all regardless of race, color, religion, sex, gender identity or expression, national origin, age, ancestry, disability, marital status, political affiliation, sexual orientation, or genetic information.

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 12 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 California Department of Human Resources (CalHR), Examination Services at (866) 844-8671, or via the California Relay Service for the Deaf or Hard of Hearing at (800) 735-2929 from TTY Phones and (800) 735-2922 from voice phones.

SALARY INFORMATION

Monthly Ranged Salary: \$4608.00 to \$8675.00

ELIGIBLE LIST INFORMATION

An open, merged eligible list will be established by the California Department of Human Resources for use by the California Department of Toxic Substances Control. 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

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

This is the entry, working, and journey level in the series. Incumbents move through the ranges as competency and performance increases.

Range A is the entry and first working level in the class. Incumbents work under close supervision and perform less difficult engineering geologic work.

Range B is the intermediate working level. Under general supervision, incumbents perform professional engineering geologic work of average difficulty.

Range C is the full (nonregistered) journey level. Under direction, incumbents perform difficult professional engineering geologic work. Incumbents may act as project managers on more complex projects or be assigned staff specialist responsibilities in support of project managers or other technical or programmatic functions. This level may also be used in a lead capacity over other Engineering Geologists or other professional or technical employees.

Range D is the full (registered) journey level. Under direction, incumbents perform difficult engineering geologic work. Incumbents may act as project managers on more complex projects or be assigned technical staff responsibilities in support of project managers or other technical or programmatic functions. This level may be used in a lead capacity over other Engineering Geologists or other professional or technical employees. Range D requires possession of a valid certificate of registration as a geologist or geophysicist issued by the California Board of Geologists and Geophysicists. Range D incumbents act in a responsible charge capacity.

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:

- The properties of hazardous materials to provide a context for their characterization and mitigation.
- Geological mapping to use in site characterization.
- Mapping techniques to use in creating geologic maps and cross-sections.
- Recognized environmental conditions (e.g., tanks, clarifiers, hazardous material storage areas) to assess for potential impact of contaminant sources.

- Interactions between various environmental media to understand the fate and transport of contaminants.

Ability to:

- Evaluate technical documents (e.g., work plans, reports, permits, health and safety plans, decision plans) for geologic completeness, accuracy, and regulatory, statutory, and Departmental compliance.
- Evaluate chemical hazards and/or contaminants to assess potential concern to human health and the environment.
- Evaluate sites and facilities for geologic hazards (e.g., faults, earthquakes, landslides, collapsible and expansive soils, flooding).
- Evaluate subsurface media (e.g., soil, soil gas, soil pore liquids, groundwater) to support site investigation, cleanup, and regulatory decisions.
- Evaluate geologic features and structures (e.g., soil type, folding, stratigraphy, fracturing) to support site investigation, cleanup, and/or regulatory decisions.
- Analyze geological and other site data (e.g., survey data, laboratory analytical data, well logs, aerial photos, plume maps, topographic maps) to assess for potential contamination.
- Create charts and graphs (e.g., time series plots, diagrams, regression analyses) to illustrate or analyze site data.
- Review charts and graphs (e.g., time series plots, diagrams, regression analyses) for accuracy, completeness, and consistency with available site data.
- Write technical documents (e.g., work plans, reports, memoranda) in a logical and understandable manner.
- Conduct geologic and hydrogeologic investigations and collect environmental samples to identify the extent of contamination or other subsurface conditions.

Additional Desirable Qualifications:

Course work in engineering geology; willingness to travel in performing field work throughout the State; course work and/or experience in environmental engineering, water resource management, hydraulics, and/or hydrogeology; and in addition to registration as a geologist, certification as an engineering geologist or hydrogeologist.

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 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)

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

GENERAL INFORMATION

Applications are available at 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 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 at <http://www.calhr.ca.gov/state-hr-professionals/pages/3756.aspx>.

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.

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.](#)