



## **Energy Commission Specialist III (Tech Evaluation and Development)**

Exam Code: 7PB28

Department: California Energy Commission

Opening Date: 11/1/2017

Final Filing Date: Continuous

Type of Examination: Departmental, Open

### **CLASSIFICATION DETAILS**

Energy Commission Specialist III - \$7,857.00 - \$9,774.00 per Month

[View the classification specification for the Energy Commission Specialist III classification.](#)

#### **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 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.

### **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 towards experience.

## Energy Commission Specialist III

### Either I

One year of experience in the California state service performing technology evaluation and development duties in [areas related](#) to energy technologies, energy research, development and demonstration projects; advanced combustion technologies; transportation energy technologies and alternative fuels; efficiency improving energy technology and fuels; including duties such as analysis of economic, environmental and public health impacts in California at a level of responsibility equivalent to Energy Commission Specialist II.

### Or II

Two years of experience in the California state service performing technology evaluation and development duties in areas related to energy technologies, energy research, development and demonstration projects; advanced combustion technologies; transportation energy technologies and alternative fuels; efficiency improving energy technology and fuels; including duties such as analysis of economic, environmental and public health impacts in California at a level of responsibility equivalent to Energy Commission Specialist I.

### Or III

Six years of responsible technical experience in one or more of the areas described in Pattern I above, including five years of experience above the trainee level. A master's degree in a field related to one of the specialties may be substituted for one year of experience; while a doctoral degree may be substituted for two years of the required experience. Only one postgraduate degree may be counted towards experience. (Completion of dissertation research for a doctoral degree in a field appropriate to one of the Energy Commission specialties may be substituted for up to one year of the required experience.)

(Experience in the California state service applied toward this pattern must include at least one year performing the duties in a class with a level of responsibility equivalent to Energy Commission Specialist II.)

### **AND**

**Education:** The following education is required when non-California state service experience is used to qualify at any level. [Equivalent to graduation from college](#). Additional experience may be substituted for the required education on a year-for-year basis.

**PLEASE NOTE:** A combination of minimum qualifications patterns will not be allowed for this examination per the disclaimer stated in the class specification.

## **POSITION DESCRIPTION**

**The Energy Commission Specialist III** is the highest level of specialist assignment in the series intended to accommodate the broadest and most advanced levels of expertise required and to act as a technical advisor to the Commission on program and policy issues. Incumbents provide expert consultation in a broad range of technical and functional areas of policy development to top administration; make policy recommendations affecting program direction; and provide testimony to legislative bodies, outside agencies and Commission committees.

## **EXAMINATION SCOPE**

This examination consists of the following components:

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

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 on measuring competitively, relative job demands, each applicant's:

### **Energy Commission Specialist III**

Knowledge of:

1. A wide range of energy technologies and associated deployment and use issues;
2. Energy supply and demand forecasts and analytic methodologies, energy policy issues affecting or resulting from energy technology development, and energy project management techniques;
3. California Public Resource Code pertaining to energy resources conservation and development;
4. Principles of physical sciences and engineering involved in energy resource development, conversion, distribution, and conservation;
5. Principles of econometric and end-use energy demand forecasting;
6. Energy sources and use within the California economy;
7. Principles of engineering economics, financial analysis, and economic theory as it pertains to energy supply and demand;
8. Energy technology costs and cost-accounting methods;
9. Recent research and development projects related to the use of petroleum, natural gas, biomass and other synthetic fuels;

10. Energy technology environmental impacts, including emissions, waste streams, volumes and characteristics;
11. Energy technology public health impacts, air quality impacts and risk analysis;
12. General provisions of social and economic implications of geothermal, solar, wind and other renewable energy development, technology and fuel demonstrations, resource planning and facility construction;
13. Recent research and development projects in electrical, nuclear, geothermal, and other energy sources and their related fuels and technologies;
14. Federal and State energy policy;
15. Decision theory, probabilistic risk assessment, and techniques of comparative evaluation, and Federal, State and local government, utilities and private agencies in energy research and regulation;
16. A variety of analytical and research techniques to resolve complex and policy sensitive issues and technical problems;
17. Significant trends and issues reported in the energy literature;
18. Theory and practice of utility planning and regulation, in general, and as implemented in California;
19. Energy efficiency, conservation, planning, forecasting and research methods including problem definition, data acquisition, and analytical techniques;
20. Other Federal, State and local energy related environmental goals, policies and organizations.

Ability to:

1. Reason logically and creatively, evaluate and apply a variety of analytical and research methods for the purpose of systematic, critical, and thorough analysis of energy problems or prospective issues leading to formulation, testing, or revision of State and/or Federal energy policies;
2. Utilize available computer systems for data base and/or computational applications;
3. Manage contracts;
4. Analyze energy data and present ideas and information effectively both orally and in writing;
5. Communicate in both written and oral formats;
6. Prepare and give testimony in planning and regulatory proceedings;
7. Develop and use complex computer programs and analytic models;
8. Develop and evaluate fuel alternatives;
9. Gain and maintain the confidence and cooperation of those contacted during the course of work;
10. Evaluate and quantify the effect of research, development and demonstration programs on energy systems;
11. Analyze situations accurately and take effective actions, and act independently within the guidelines set forth by the Commission;
12. Present ideas and analysis cogently and effectively;

13. Consult with and advise other staff management, Commissioners, or others on the relative merits of specific energy technologies and the impact of various energy policies;
14. Coordinate the complex technical work of others, act as a team or conference leader to analyze the more technical and complex situations accurately and take effective action;
15. Establish and maintain project priorities;
16. Testify as subject matter expert (geothermal, solar, wind and other renewable energy development, technology and fuel demonstrations, recent research and development projects in electrical, nuclear, geothermal, and other energy sources and their related fuels and technologies) before the Commission and other groups;
17. Serve as the Commission's top adviser in such areas;
18. Effectively employ computer techniques for problems solving;
19. Consult with and advise Office Managers, Division Administrators, Commissioners and other interested members of State energy community on a wide variety of energy forecasting, modeling and fuel-related issues and topics.

## ELIGIBLE LIST INFORMATION

A departmental open eligible list for the **Energy Commission Specialist III** classification will be established for:

California Energy Commission

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**

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.

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

Career Credits are not granted for examinations administered on an Open basis or Promotional basis.

## EXAMINATION INFORMATION

### [Examination Questions Review](#)

## 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 offices 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 EXAM

Take the online [Training and Experience Evaluation](#) for the **Energy Commission Specialist III** classification.

## TESTING DEPARTMENTS

California Energy Commission

## CONTACT INFORMATION

1516 – 9th Street, MS 52  
Sacramento, CA 95814  
Phone: (916) 653-6532  
[Careers@energy.ca.gov](mailto:Careers@energy.ca.gov)

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.

California Relay Service: 7-1-1 (TTY and voice)  
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 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**

The Examination/Employment Application (STD 678) is available at the California Department of Human Resources, local offices of the Employment Development Department, and through your CalCareer account ([www.CalCareers.ca.gov](http://www.CalCareers.ca.gov)).

If you meet the requirements stated on this examination bulletin, you may take this competitive examination. 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 scores.

The California Department of Human Resources (CalHR) 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 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 exam bulletin.