



DEPARTMENT OF WATER RESOURCES EXAMINATION ANNOUNCEMENT



The Department of Water Resources is an equal opportunity employer to all regardless of age, ancestry, color, denial of family and medical care leave, disability, gender identity or expression, genetic information, marital status, medical condition, military and veteran status, national origin, political affiliation, race, religion, sex, or sexual orientation of any person.

It is an objective of the State of California to achieve a drug-free State workplace. 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.

SENIOR HYDROELECTRIC POWER UTILITY ENGINEER (SPECIALIST) OPEN/NON-PROMOTIONAL

CONTINUOUS TESTING	Applications will be accepted on a continuous basis. Testing is considered continuous, as new test dates (cut-offs) can be set at any time as departmental needs warrant. Revised applications (STD 678 REV. 10/2013) must be RECEIVED OR POSTMARKED no later than the cut-off date posted on the "Notice to Announce Cut-Off date". FAXED OR EMAILED APPLICATIONS WILL <u>NOT</u> BE ACCEPTED. Applications postmarked after the cut-off date or personally delivered after 5:00 pm on the cut-off date will be held for the next administration of the examination.						
WHO SHOULD APPLY	This is an open/non-promotional examination. Candidates, who meet the minimum qualifications, as stated below, may apply for this examination.						
HOW TO APPLY	<p>Examination Applications (Form STD 678 Rev. 10/2013) may be mailed or submitted in person by the cut-off date to:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">MAILING ADDRESS:</td> <td style="width: 33%; text-align: center;">OR</td> <td style="width: 33%;">SUBMIT IN PERSON:</td> </tr> <tr> <td>Department of Water Resources P.O. Box 942836 Sacramento, CA 94236-0001</td> <td></td> <td>Department of Water Resources 1416 9th Street, Room 320 Sacramento, CA 95814</td> </tr> </table> <p>DO NOT SEND APPLICATIONS TO THE CALIFORNIA DEPARTMENT OF HUMAN RESOURCES OR DEPARTMENT OF WATER RESOURCES' FIELD OFFICES. Applications are available at Department of Water Resources' (DWR) offices, the DWR website: www.water.ca.gov/jobs/currentexams.cfm, local office of the Employment Development Department, the California Department of Human Resources (CalHR), and their website: www.jobs.ca.gov.</p>	MAILING ADDRESS:	OR	SUBMIT IN PERSON:	Department of Water Resources P.O. Box 942836 Sacramento, CA 94236-0001		Department of Water Resources 1416 9th Street, Room 320 Sacramento, CA 95814
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CROSS FILING INFORMATION	If you meet the entrance requirements for this classification and for the Senior Hydroelectric Power Utility Engineer (Supervisor) scheduled with the same final filing date, you may file for two or more examinations on a single application. Please indicate the classification(s) you are applying for.						
IDENTIFICATION REQUIRED	Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination.						
SPECIAL TESTING ARRANGEMENTS	If you have a disability and need special testing arrangements, mark the appropriate box in Question 2 of the "Application for Examination". You will be contacted to make specific arrangements.						
SALARY RANGE	\$8,122 - 10,166						
ELIGIBLE LIST INFORMATION	An open/non-promotional eligible list will be established for the Department of Water Resources. The names of successful competitors will be merged onto the list in order of final scores, regardless of test date. Eligibility expires 12 months after it is established. Competitors must then retest to re-establish eligibility.						
TESTING PERIOD	Competitors can test only <u>once</u> during a 12-month period.						
REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION	<p>NOTE: All applicants must meet the minimum qualifications for this examination by the cut-off date. Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either" I, "or" II, "or" III, etc. For example, candidates possessing qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirement.</p> <p>Graduation from college with major work in electrical, electronic, mechanical, or civil engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.)</p> <p>AND</p> <p style="text-align: center;">Either I</p> <p>Two years of experience performing the duties of an Associate Hydroelectric Power Utility Engineer in California state service.</p> <p style="text-align: center;">Or II</p> <p>Five years of progressively responsible engineering experience in the electric utilities field and/or in the operation and maintenance of pumping and generating equipment, at least two years of which shall have been comparable in responsibility to that of an Associate Hydroelectric Power Utility Engineer.</p>						
POSITION DESCRIPTION	This is the staff specialist level responsible for conducting assignments which are difficult, controversial, require a high level of specialized expertise or unique technical knowledge and skills relating to: analysis of electric resource requirement and/or making recommendations to management for specific arrangements for acquisition of power supply or exchanges best suited for the operation of the State Water Project, negotiate with high level electric utility representatives for power purchase, sale or exchange agreements; prepare documents and/or testimony regarding power-related activities and present to regulatory agencies; provide guidance to field maintenance personnel about highly specialized maintenance, repair, or testing technologies or for complex database of management information system to improve availability and reliability of hydroelectric plants, machinery, equipment and apparatus; prepare unique procedures and conduct specialized diagnostic, predictive and/or corrective tests for hydroelectric plant machinery, equipment and apparatus using state-of-the-art test equipment; review hydroelectric plant machinery, equipment and apparatus for obsolescence and selecting appropriate replacements; coordinate retrofitting/replacement effort for the Operations and Maintenance Division.						

Positions exist statewide with the Department of Water Resources.

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

EXAMINATION INFORMATION	This examination will consist of a Qualifications Appraisal Interview - Weighted 100% . In order to obtain a position on the eligible list, a minimum rating of 70% must be attained in the interview. COMPETITORS WHO DO NOT APPEAR FOR THE INTERVIEW WILL BE DISQUALIFIED.
SCOPE OF EXAMINATION	<p style="text-align: center;">Qualifications Appraisal Interview – Weighted 100%</p> <p>In addition to evaluating the competitors' relative abilities as demonstrated by quality and breadth of experience, emphasis in the examining interview will be on measuring competitively, relative to job demands, each competitor's:</p> <p>A. Knowledge of:</p> <ol style="list-style-type: none"> 1. Engineering theory and practices relating to power generation, transmission, distribution, and marketing. 2. Electric utility operation and management. 3. Functions, responsibilities, and procedures of regulatory and government agencies including the Public Utilities Commission, the Federal Energy Regulatory Commission, and the California Energy Commission, in the electric utility field. 4. Planning, design, construction, and operation of major generating plants, power transmission systems and pumping plants. 5. Methods of determining the optimum capacity and energy output of generating plants. 6. Power marketing and economics, including the market for and value of electric power, methods of marketing power and rates, agreements. 7. Operating, maintaining and testing of electrical and mechanical equipment and systems for plants, switchyards, reservoir outlets and aqueduct control features. 8. Environmental issues and policies. 9. Unit operating and loading procedures and criteria. 10. Standards of the American National Standards Institute, Institute of Electrical and Electronic Engineers, and American Society of Mechanical Engineers. 11. Instrumentation and control circuitry and electrical protection. 12. Servo systems and governors. 13. Bearings. 14. Lubrication. 15. Metal working. 16. Machining and welding. 17. Nondestructive examination. 18. Alignment and balancing of rotating machinery including vibration measurement. 19. Methods of maintenance, repair, and testing. 20. Power system operation and control. 21. Power system studies, load flow, stability, and fault analyses. <p>B. Ability to:</p> <ol style="list-style-type: none"> 1. Analyze situations accurately and adopt an effective course of action. 2. Prepare clear and concise reports. 3. Prepare procedures and manuals. 4. Make feasibility studies. 5. Interpret, prepare and revise electrical and mechanical drawings and schematics and relay and control logic diagrams. 6. Assist and advise others on maintenance and repair procedures, materials, and tools. 7. Negotiate, administer, and coordinate contracts such as for maintenance, repair, testing, and consultation. 8. Conduct and coordinate special test activities. 9. Use personal computers.
ADDITIONAL DESIRABLE QUALIFICATIONS	Possession of a valid certificate of registration as a professional engineer.
CAREER CREDITS	Career Credits will be granted.
VETERANS PREFERENCE	<u>Assembly Bill 372</u> , signed into law by Governor Brown on August 12, 2013, changes the way the Veterans Preference process is administered by the State of California. Veterans Preference will be awarded as follows, starting on January 1, 2014: 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 exam is defined, under law, as any open competitive examination. 3) Veterans Preference is not granted once a person achieves permanent civil service status.

GENERAL INFORMATION

The Department of Water Resources (DWR) 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 competitors will be notified. **For any examination** without a written feature it is the candidate's responsibility to contact the Selection Services Section of the Department of Water Resources, (916) 653 - 4838 three weeks after the final filing date if he/she has not received a progress notice.

Applications are available at Department of Water Resources' (DWR) offices, the DWR website: www.water.ca.gov/jobs/currentexams.cfm, local office of the Employment Development Department, California Human Resources (CalHR), the CalHR website at www.jobs.ca.gov and click "My Profile".

If you meet the requirements stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination described on this bulletin will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification.

Examination Locations: Ordinarily, qualifications appraisal interviews are scheduled in Sacramento and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.

If a candidate's notice of oral interview fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) servicewide promotional, 5) departmental open, 6) open eligible list. 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 this bulletin. In the case of continuous testing examinations, names are merged into the appropriate lists in order of final test scores (except as modified by veterans preference) regardless of the date of the test, and the resulting eligible lists will be used only to fill vacancies in the area shown on the bulletin.

How to apply for Veterans Preference: The California Department of Human Resources (CalHR) has information on how to apply for Veterans Preference on their website at www.jobs.ca.gov and on the Application for Veterans Preference form (CalHR 1093). Additional information is also available at the Department of Veterans Affairs website at www.cdva.ca.gov.

TDD is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device. California Relay Telephone Service for the deaf or hearing impaired: From TDD phones: 1-800-735-2929; From voice phones: 1-800-735-2922

For information regarding this examination, please contact Teresa Lapanja at (916) 653-6330.