



**CITY OF REDDING**  
**invites applications for the position of:**

**Electrical Engineer**

---

**SALARY:** \$3,301.85 - \$5,215.85 Biweekly  
\$7,154.00 - \$11,301.00 Monthly  
\$85,848.00 - \$135,612.00 Annually

**OPENING DATE:** 02/07/19

**CLOSING DATE:** Continuous

**DESCRIPTION:**

The Redding Electric Utility is adding to the eligibility list to fill one full-time Electrical Engineer vacancy, as well as subsequent vacancies that occur during the life of the eligibility list. Candidates shall be able to prepare plans, specifications, contract documents, and cost estimates for assigned projects requiring electrical engineering expertise; evaluate contract and equipment bids, administer and review consultant work; review and determine applicable industry standards; and perform engineering design work as required to accomplish assigned objectives.

**EXAMPLES OF DUTIES:**

Perform and implement studies as assigned to formulate recommendations for the electric utility in connection with a wide range of activities involving generation, transmission lines, distribution lines, substations, system operation, system protection, metering, communications, load forecasting, system planning, budget planning, transmission and distribution routing studies, easement acquisition, and other assignments typical of electric utility power systems; Manage utility construction projects (substations, transmission lines, etc.), supervise operation and maintenance of completed projects; Take responsibility for contract preparation and administration, design, construction, operation and maintenance schedule coordination, investigate and analyze liability claims, inter-utility coordination, and quality control. This may involve making field decisions and supervision of any and all tests required to assure specified results; Work with and provide guidance to management and/or utility's customers in matters pertaining to the efficient use of electrical energy, system protection, power-factor correction, and grid connected alternate energy sources; Coordinate the work of outside consultants on major engineering programs or studies; Assist in preparation of the utility's annual budget and capital improvement plans; Develop long-range plans to ensure the technical merit, and adequate capacity and reliability of the utility in the foreseeable future. Conduct service reliability studies and compile reports; Coordinate with other utilities, agencies and City departments as needed on the construction, operation, and maintenance of system facilities (i.e., transmission, distribution and generation); Review applicable State and Federal regulations and monitor utility compliance, make recommendations and, as assigned, develop and implement procedures for compliance; Perform complex electrical calculations and analysis using both software and manual methods (i.e., voltage drop, short circuit, sag tension, loadflow, stability, protection coordination); Troubleshoot electrical, control and operation problems with utility equipment and facilities; Develop and implement operation, maintenance, and testing procedures for utility facilities. Work with utility crews for adequate tree-trimming and pole clearing for T&D lines; Perform other related duties as assigned.

**TYPICAL QUALIFICATIONS:**

**Knowledge of:** Electric utility engineering and operating practices; transmission line design and construction; design of electrical power facilities; system planning; system protective relaying and control; standards/codes for transmission, distribution, and generation facilities including NEC, NESC, GO95, ANSI and IEEE; construction contracts, utility agreements; electric utility system operation characteristics; applicable State and Federal regulations and laws; electric utility testing methods and procedures; budget planning/preparation; supervisory principles; North American Electric Reliability Corporation (NERC) compliance requirements.

**Ability to:** Interact effectively with the public, consultants, and employees. Communicate effectively both orally and in writing; design electrical power facilities; troubleshoot electrical systems, control systems, and project problems; demonstrate highly developed analytical and technical skills in electric utility engineering and operational analysis; provide technical supervision of staff; create and revise documents or reports utilizing computer technology.

**Education and Experience:** Any combination of training and experience that provides the required knowledge, skills, and abilities is qualifying; typical education would include a Bachelor of Science Degree in Electrical Engineering from an accredited college, or university, or equivalent. Typical experience would include five years relevant electrical engineering experience with preference for electric utility engineering including distribution, transmission, substation design and/or construction experience.

**Special Requirements:** Professional registration in Electrical Engineering in the State of California, or in another state that has reciprocity with California, and must obtain California registration within one year of employment. Possession of the appropriate California driver's license, or the ability to acquire one within ten days of appointment.

## **APPLICATION AND EXAMINATION PROCESS:**

**Please be advised all notifications pertaining to this recruitment (e.g. exam invitations, exam results) will be e-mailed to you at the e-mail address provided on your employment application. Please be sure to provide your current and complete e-mail address. Check your inbox as well as your spam folder for correspondence as your e-mail provider or personal settings may flag the e-mail as spam. Contact the Personnel Department with any questions.**

**Application Process:** Interested individuals must submit a City of Redding online employment application in order to be considered. *This is a continuous recruitment and may close at any time with minimal or no notice. Applications not submitted by the close of the recruitment may not be considered; therefore, prompt application is encouraged.*

Incomplete applications may not be processed. Meeting the announced requirements does not guarantee selection into the examination process. Applications will be reviewed to determine those best qualified to be tested.

**Veterans Credit:** Veterans who have received an honorable discharge from the military service and receive a passing score on the examination will have 2 points added to their final examination score. To obtain this credit, veterans MUST provide a copy of the DD214, indicating honorable discharge, WITH EACH EMPLOYMENT APPLICATION BY THE CLOSING DATE.

**Examination Process:** An oral board interview will be administered.

AN EQUAL OPPORTUNITY/FEDERAL AFFIRMATIVE ACTION EMPLOYER

---

777 Cypress Avenue  
Redding, CA 96001  
(530) 225-4065

[personnel@cityofredding.org](mailto:personnel@cityofredding.org)

---

## **Electrical Engineer Supplemental Questionnaire**

- \* 1. Describe your experience in the design and specification of electrical substations including protective relaying. Please list/describe the projects on which you have worked, and indicate your role in the project. If none, please type N/A.
  
- \* 2. Describe your experience in the area of transmission/distribution system planning and load forecasting. Describe any experience in transmission/distribution system modeling, preparing voltage profiles, or short-circuit studies. If none, please type N/A.
  
- \* 3. Describe your experience in the area of transmission/distribution line design and construction. Describe projects you have worked on and your role in the projects. If none, please type N/A.
  
- \* 4. Describe your experience working with personal computers and the software with which you are most familiar. Specify any power flow or short-circuit software programs with which you are familiar. If none, please type N/A.
  
- \* 5. Describe any experience you have in the inspection, administration, or management of electric utility consulting contracts, service or procurement contracts, or construction contracts (especially related to Public Works construction). If none, please type N/A.
  
- \* 6. Describe your experience in developing electrical utility engineering, design, and construction standards. List any Federal regulatory filing experience, if any. If none, please type N/A.
  
- \* 7. Describe any other areas of utility experience or expertise you have that you feel would be valuable to the Electric Utility. Describe any power production experience and/or experience with design and implementation of power plant distributed control systems, if any. If none, please type N/A.
  
- \* 8. Describe your experience in designing, implementing and/or analyzing transmission, generation and distribution protective relaying schemes. If none, please type N/A.
  
- \* Required Question

