



City of Arts & Innovation

CITY OF RIVERSIDE
invites applications for the position of:

UTILITIES SENIOR ELECTRICAL ENGINEER

SALARY: \$48.82 - \$59.31 Hourly
\$3,905.54 - \$4,745.08 Biweekly
\$101,544.00 - \$123,372.00 Annually

OPENING DATE: 05/31/18

CLOSING DATE: 07/12/18 11:59 PM

THE POSITION:



We are currently seeking a talented individual for the position of **Utilities Senior Electrical Engineer-Automation/Protection** to fill one (1) vacancy in the **Energy Delivery Division** of the **Public Utilities Department**.

The successful candidate performs engineering studies, design calculations and evaluates alternative designs or processes. The incumbent will provide primary engineering expertise in the design, modification and maintenance of software and schemes associated with automation, control, and protection of the transmission and distribution system. This incumbent will also specify the material and equipment required for assigned projects and assist in the evaluation of suppliers and products. The candidate will be the lead engineer for transmission and distribution system automation and protection projects.

Additionally the Utilities Senior Electrical Engineer, under general supervision, perform supervisory and professional electrical engineering work in the design, investigation and construction of electric utility projects; and does related work as required. As incumbents progress through this job series, projects become considerably more technically demanding and may involve direct supervisory responsibilities and duties.

WORK PERFORMED:

Typical duties may include, but are not limited to, the following:

- Perform complex studies of technical, environmental and economic feasibility, engineering field studies and related studies pertaining to proposed and existing system facilities.
- Plan their own work and the work of others. Complete special projects that are frequently long and complex, requiring advanced engineering and technical ability. The projects often involve new, innovative and original ideas. This responsibility includes such projects as:
- Develop and update written directives for their department and for use by other employees to include:

Engineering Guidelines
Standard Material Lists Standard Specifications
Other technical and administrative policies and procedures as appropriate
Research activities pertaining to new and failed materials, engineering and construction practices.
Economic, loading, load flow, and project justification reports.
Other directives as required.

- Develop major engineering projects and other engineering projects with unique problems which have an important effect on other major utility projects.
- Provide background information and documentation for management consideration on major projects and technical matters involving advanced engineering theories, concepts and principles.
- Work with other engineering personnel of limited experience in an advisory capacity or supervisory capacity.
- Make sound decisions independently on technical problems and methods related to the work being performed.

QUALIFICATIONS:

Education and Experience:

Education: Graduation with a bachelor's degree in electrical engineering from a college or university with an accredited four or five year degree program in electrical engineering. A bachelor's degree in civil or mechanical engineering from a college or university with an accredited four or five year degree program and two additional years of experience doing professional electric utility engineering can substitute for an electrical engineering degree. The completion of post-graduate courses related to electric utility engineering is highly desirable. Registration as a Professional Engineer cannot substitute for the required education.

Experience: Four years of experience in professional electric utility engineering work comparable to that of [Utilities Associate Electrical](#)

[Engineer in the City of Riverside](#) Electric Utility. Registration in California as a Professional Engineer is highly desirable or may be required as a matter of law, depending upon the assigned responsibilities.

Necessary Special Requirement:

Possession of an appropriate, valid class "C" California Motor Vehicle Operator's License.

Highly Desired Qualifications:

- Experience as a lead engineer responsible for substation/distribution automation and system protection projects.
- Experience designing and implementing automation devices, transmission and distribution protective devices and processes to support changes to the electric system.
- Experience performing the calculation of protection relay settings including complex programming for various digital and electromechanical relays.
- Experience reviewing protection schematic drawings for accuracy against standards, modeling of primary systems and secondary systems in electrical simulation software platforms such as ASPEN or Synergi software.
- Experience performing NERC related reliability compliance activities, reports, and documents for required PRC standards.

SELECTION PROCESS:

The selection process will begin with an employment application package screening, with the best qualified candidates being invited to participate further in the assessment process. This process may include any combination of written, performance, and oral assessments to evaluate job-related education, experience, knowledge, skills, and abilities. Those who successfully complete the selection process will be placed on the eligibility list for this classification.

It is the responsibility of candidates with a disability requiring accommodation in the assessment process to contact the Human Resources Department in writing to request such accommodation prior to the closing date of this recruitment.

Appointment may be subject to the successful completion of a pre-employment background investigation, drug screen, and/or medical/physical examination.

NOTE: The City reserves the right to modify selection devices and test instruments in accordance with accepted legal, ethical, and professional standards. Candidates may reapply when there is a posting to establish an eligibility list.

EDUCATIONAL REQUIREMENTS:

Proof of education listed in your application will be requested at the time of conditional offer. Acceptable documentation consists of transcripts or degree, if applicable, by the accredited U.S. college or university.

Education obtained outside the United States (US) require one of the following options:

- An equivalency statement from an evaluation company certified by the National Association of Credential Evaluation Services (NACES) at <http://www.naces.org/members.html> or the Association of International Credential Evaluators Inc. (AICE) at <http://aice-eval.org/members/>.
- An advanced-level degree from an accredited US college or university.

All applicants will be notified via e-mail or telephone of their application status and the assessment dates/times/locations after the closing date of this announcement.

THE PROVISIONS OF THIS JOB ANNOUNCEMENT DO NOT CONSTITUTE AN EXPRESSED OR IMPLIED CONTRACT.

**CITY OF RIVERSIDE, AS AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER,
ENCOURAGES APPLICANTS FROM DIVERSE BACKGROUNDS TO APPLY.**



APPLICATIONS MUST BE FILED ONLINE AT:
<http://www.riversideca.gov>

3900 Main Street
Riverside, CA 92522
951-826-5808

cityjobs@riversideca.gov

Position #18-7181-02
UTILITIES SENIOR ELECTRICAL ENGINEER
JB

UTILITIES SENIOR ELECTRICAL ENGINEER Supplemental Questionnaire

- * 1. **Instructions:** The information on the application and your responses to the following supplemental questions will be used to determine whether you meet the minimum and/or highly desirable qualifications for the position in which you are applying. Detailed responses must be provided for each question in order to ensure qualifications are properly considered.
(*Do not refer to a resume in lieu of completing the supplemental questions).
Employers listed on this questionnaire must also be listed and fully detailed in the work experience section of your application.

- I understand.
- * 2. Please indicate the highest level of education you have completed.
- Less than High School Diploma or GED
 - Equivalent to the completion of the twelfth grade
 - Some college coursework completed
 - Associate's Degree
 - Bachelor's Degree
 - Master's Degree
 - PhD
- * 3. Do you possess a bachelor's degree in electrical engineering from a college or university with an accredited four or five year degree program in electrical engineering?
- Yes No
- * 4. Do you possess a bachelor's degree in civil or mechanical engineering from a college or university with an accredited four or five year degree program?
- Yes No
- * 5. Have you completed post-graduate courses related to electric utility engineering?
- Yes No
- * 6. Please indicate the amount of full-time experience you have in professional electric utility engineering work comparable to that of Utilities Associate Electrical Engineer in the City of Riverside Electric Utility; **OR** Performing professional electrical engineering work in the design, investigation and construction of electric utility projects .
- None
 - Less than four (4) years
 - Four (4) years or more / Less than six (6) years
 - Six (6) years or more
- * 7. Please indicate the following regarding your experience listed above, or relevant work experience:
- Employer:
Job Title:
Years of Experience:
Examples of Duties:
- * 8. Please indicate which type of valid driver's license you possess.
- None
 - Class A
 - Class B
 - Class C
 - Out of State
- * 9. Are you currently registered in California as a Professional Engineer?
- Yes No
- * 10. Please indicate the amount of experience you have as a lead engineer responsible for the engineering, design, project management, and operation/maintenance support for substation/distribution automation and system protection projects.
- Less than 1 year
 - More than 1 year, less than 2 years
 - More than 2 years, less than 3 years
 - 3 years or more
- * 11. Please indicate the amount of experience you have designing and implementing automation devices, transmission and distribution protective devices, and processes to support changes to the electric system.
- Less than 1 year
 - More than 1 year, less than 2 years
 - More than 2 years, less than 3 years
 - 3 years or more
- * 12. Please indicate the amount of experience you have in performing the calculation of protection relay settings including complex programming for various digital and electromechanical relays; and performing short circuit studies for the protection coordination of distribution and transmission systems.
- Less than 1 year
 - More than 1 year, less than 2 years
 - More than 2 years, less than 3 years
 - 3 years or more
- * 13. Please indicate the areas in which you possess at least 2 years of experience in (check all that apply):
- Data analysis
 - Power outage management

- SCADA
 - Distribution Automation (DA)
 - Circuit Coordination
 - Post Disturbance Analysis
 - None of the Above
- * 14. Which of the following areas do you have experience in (please check all that apply):
- Evaluating the status of the existing infrastructure and designing a Distribution Automation (DA) system
 - Providing project management support throughout the DA procurement and installation process with a focus on utility risk, cost, and time management
 - Reviewing protection schematic drawings for accuracy against standards. Checking adherence to standards, philosophy, application guidance and accuracy of calculations
 - Modeling of primary systems and secondary systems in electrical simulation software platforms such as ASPEN or Synergi software
 - Providing commissioning support to field personnel applications
 - None of the Above
- * 15. Please indicate the amount of experience you have in performing NERC related reliability compliance activities, reports, and documents for required Protection and Control (PRC) standards.
- Less than 1 year
 - More than 1 year, less than 2 years
 - More than 2 years, less than 3 years
 - 3 years or more
- * 16. **Certification:** I understand that I **cannot** update my application once it has been submitted. Therefore, I have fully completed **ALL** sections, provided **full descriptions of my duties and responsibilities** for each employer, and have fully answered **ALL** questions on the Supplemental Questionnaire. (**Do not refer to a resume or other documentation, as it will not be reviewed.**) *Employers noted on the Supplemental Questionnaire must also be included and fully detailed on the Application.*
- I understand.
- * Required Question