



CITY OF SANTA CLARA
invites applications for the position of:
**Senior Electric Utility
Engineer**

SALARY: \$85.79 - \$109.46 Hourly
\$14,869.91 - \$18,973.56 Monthly
\$178,438.92 - \$227,682.72 Annually

OPENING DATE: 06/06/22

CLOSING DATE: Continuous

EXAM WEIGHT: 100% Oral, Qualifying Supplemental

TENTATIVE EXAM INFORMATION:

DESCRIPTION:

The Department

Silicon Valley Power (SVP) currently provides over 40 percent of Santa Clara's electricity from carbon-free renewable resources. In addition to using green energy from large-scale wind, solar, geothermal and hydroelectric projects outside of the area, SVP employs innovative ways to locally produce electricity by capturing and burning methane gas from a closed city landfill and using power from solar generating systems on city-owned garages and vacant, unusable land. It is the mission of Silicon Valley Power to be a progressive, service-oriented utility, offering reliable, competitively priced services for the benefit of Santa Clara and its customers. Being competitive in the marketplace with a continuous focus on customer service, SVP can provide economic value to the City of Santa Clara and its customers while maintaining low residential rates and offering competitive rates for all customers.

The Positions

SVP is seeking a dynamic and innovative Senior Electric Utility Engineer to fill vacancies in the Utility Operations division and Customer Development and Project Management division. The ideal candidate will have electric utility engineering experience; excellent project management skills; strong oral and written communication skills; experience working in a team environment on major construction projects.

For the Operations Division, the first position will lead operations engineering studies, perform and maintain the electric system model, participate in SVP system planning, identify and implement projects that are necessary to support load growth and improve reliability of the electric system. This position requires hands-on working knowledge of GE PSLF modeling. This position supports day-to-day utility operations and Compliance. This individual should be an experienced, self-starter who can thrive in both an autonomous and team environment.

For the Operations Division, the second position will lead substation engineering and standards development that support the mission of the Utility. This individual should be an experienced, self-starter who can thrive in both an autonomous and team environment. This position requires hands-on working knowledge of substation design and construction, and standards development. A working knowledge of protection and control systems, communication systems, project management, and Compliance is desirable. The candidate should have extensive knowledge of substation engineering concepts, principles, and practices to resolve complex problems with only general direction. This position supports day-to-day utility operations and Compliance.

For the Customer Development and Project Management Division, the first position will perform and maintain the distribution system model, participate in integrated SVP system planning with the transmission planning team and other SVP groups to deliver distribution system results and reports, identify and implement projects that are necessary to support load growth and improve reliability of the distribution system. This position will contribute to developing engineering standards and processes. Experience with distributed energy resources interconnection to the grid, including battery storage and grid automation is desirable. This position will work closely with customers/developers on their projects, will coordinate with various City departments, and support SVP's field and operation staff, as necessary.

For the Customer Development and Project Management Division, the second position will lead the implementation of a portfolio of projects that can include, new substations, new 60kv, 115kv, and 230kv transmission lines, reconstruction and/or expansion of existing substations and transmission lines. This individual should be an experienced, self-starter who can thrive in both an autonomous and team environment. This position requires hands-on working knowledge of the project management lifecycle, including but not limited to initiating, planning, executing, monitoring, and closeout of projects. A working knowledge of how electric utility systems work, and the work resources required to design, bid, construct, and commission these systems is desirable. The candidate should have extensive knowledge in scheduling, budgeting, preparing bid packages, leading and working with teams of subject matter experts, managing all financial aspects of projects through ongoing job forecasting, oversee preconstruction meetings, coordinating factory acceptance testing of equipment, manage RFIs, change orders, invoicing, and developing and maintaining a network of professional relationships within our industry and with our customers. This position supports day-to-day utility operations and Compliance.

Incumbents in these positions may be assigned to work in the operations, generation, transmission, planning, distribution, or substation groups of the Electric Utility Department as the need is determined.

This recruitment may be used to fill multiple positions in this, or other divisions or departments. If you are interested in employment in this classification, you should apply to ensure you are considered for additional opportunities that may utilize the applicants from this recruitment.

TYPICAL DUTIES:

- Plans, directs, coordinates and performs or assists in the planning, design, analysis, study, construction and equipment installation of electric utility system expansion projects, including: generation projects, substation projects, transmission and distribution projects, supervisory control and relaying projects, street lighting projects and other electric system facilities.
- Prepares, conducts, analyzes and assists in testing electric utility equipment for the City Electric Utility.
- Directs, prepares or assists in the preparation of standards, layout and construction drawings, equipment specifications and design procedures for electric facilities.
- Prepares or directs and reports the results of load forecasts and analyses, system expansion studies, and other power system studies, analyses and calculations.
- Formulates, prepares or directs preparation and recommends general operating procedures and guidelines, and operating manuals for system facilities including substations, transmission and distribution, and generation.
- Prepares or directs the preparation of necessary reports to regulatory agencies.
- Provides customer assistance and information to other City Departments on technical matters relevant to electric utility expansion, design, operation and procedures.
- May act as resident engineer during project construction, major maintenance activities or significant studies/projects of a similar nature.
- May direct preparation of, or prepare, inputs for Department budget.
- Does related work as required.

MINIMUM QUALIFICATIONS:

Education and Experience:

Graduation from an accredited college or university with: a) Bachelor's Degree in Electrical Engineering and three (3) years' experience in electric utility engineering work or b) a Bachelor's Degree in Engineering and four (4) years' experience doing electric utility engineering work or ten (10) years' experience doing electric utility engineering work and satisfactory completion of a qualifying written examination.

Acceptable Substitution:

A Master's Degree in electrical, mechanical, or civil engineering from an accredited college may be substituted for one year of experience (proof of receipt of an Engineer in Training certificate may be substituted for the qualifying written examination). Candidates from a non-accredited college or university must demonstrate equivalency. Registration as a professional electrical, mechanical, or civil engineer in the State of California may be substituted for accreditation equivalency.

LICENSE

Possession of a valid California Driver's license.

SPECIAL CONDITIONS & OTHER REQUIREMENTS

- Prior to hire, candidates will be required to successfully pass a pre-employment background check, which may include employment verification, a DMV record check, a criminal history check, and Department of Justice (DOJ) fingerprinting. Any information obtained will be used to determine eligibility for employment in accordance with the law. A conviction will not necessarily disqualify an applicant from appointment, however, failure to disclose a conviction when required will result in disqualification from the recruitment process.
- A medical examination may be required prior to appointment
- May work unusual hours in emergency situations, or while acting as duty supervisor outside regular working hours, or at other than regular job site

PROMOTIONAL POINTS

Permanent City employees who receive a passing score on the examination process will have five (5) promotional points added to their final score.

Meeting the minimum qualifications does not guarantee admittance into the examination process. Only the most qualified candidates who demonstrate the best combination of qualifications in relation to the requirements and duties of the position will be invited to test. Candidates must attain a passing score on each phase of the examination process to qualify for the Eligible List. A department interview will be required prior to appointment.

Federal law requires all employees to provide verification of their eligibility to work in this country. Please be informed that the City of Santa Clara will not sponsor, represent, or sign documents related to visa applications/transfers for H1B or any other type of visa which requires an employer application.

KNOWLEDGE, SKILLS, AND ABILITIES:

- Working understanding and familiarity with the electrical, mechanical and civil engineering principles, practices, procedures, materials and equipment used in the planning, design, cost estimation, technical and economic analysis, construction, operation, repair and maintenance of electric utility generation, substation, transmission, distribution, street lighting, metering and other facilities.

- Thorough knowledge of the theory of electric utility operation (i.e., generation, transmission and distribution of three phase, alternating current power).
- Basic knowledge of principles of supervision and personnel administration.
- Good ability to understand and follow oral and written instructions and to analyze engineering problems, calculate and report solutions; good ability to effectively interface with the general public including customers and other City employees.

Additional Information:

You must answer all job-specific questions in order to be considered for this vacancy or your application will be deemed incomplete and withheld from further consideration. Applications must be filled out completely (i.e. do not write "see resume or personnel file.") To receive consideration for the screening process, candidates must submit a **resume**. Incomplete applications will not be accepted. Application packets may be submitted online through the "Apply Now" feature on the job announcement at www.santaclaraca.gov. **This posting is continuous: Applications will be reviewed every three (3) weeks for consideration to the position, with the first review to take place on June 24, 2022. The recruitment may close without notice so interested applicants are encouraged to apply immediately**

The City of Santa Clara is an equal opportunity employer. Applicants for all job openings will be considered without regard to age, race, color, religion, sex, national origin, sexual orientation, disability, veteran status or any other consideration made unlawful under any federal, state or local laws. The City of Santa Clara is committed to offering reasonable accommodations to job applicants with disabilities. If you need assistance or an accommodation due to a disability, please contact us at (408) 615-2080 or HumanResources@santaclaraca.gov.

APPLICATIONS MAY BE FILED ONLINE AT:
<http://www.santaclaraca.gov>

Position #32-22-730
SENIOR ELECTRIC UTILITY ENGINEER
JM

1500 Warburton Ave.
Santa Clara, CA 95050
408-615-2080
Fax: 408-985-0667

humanresources@santaclaraca.gov

Equal Opportunity Employer

Senior Electric Utility Engineer Supplemental Questionnaire

- * 1. Select the option that best describes how you meet the minimum qualifications:
- A Bachelor's Degree in Electrical Engineering from an accredited college or university and three (3) years' experience in electric utility engineering work
 - A Bachelor's Degree in Engineering from an accredited college or university and four (4) years' experience doing electric utility engineering work
 - Ten (10) years' experience doing electric utility engineering work
 - A Master's degree in electrical, mechanical, or civil engineering from an accredited college and two (2) years experience in electric utility engineering work
 - I do not meet the minimum qualifications
- * 2. Describe your experience in electric utility engineering work, where you obtained this experience, and how long you performed these duties.
- * 3. Do you possess a valid California Driver's license?
- I possess a valid CA driver's license
 - I do not possess a valid CA driver's license, but have the ability to obtain one by employment

- * 4. Please describe any other electric utility experience you have in the following areas: a. Protection Engineering b. Transmission & Distribution Design & Construction c. Transmission & Distribution Operations & Maintenance d. Generation Design & Construction e. Generation Operations & Maintenance f. Substations Design & Construction g. SCADA & Telecommunications Engineering & Operations

- * 5. Please check the box and answer the supplemental questions for ONLY the opportunities you are interested in being considered for.
 - Utility Operations Division Operations Engineering questions 6, 7, and 8.
 - Utility Operations Division Substation Engineering questions 9, 10, and 11.
 - Customer Development and Project Management Division questions 12, 13, and 14.
 - Customer Development and Project Management Division, Distribution Planning questions 15, 16, and 17.
 - If you would like to be considered for all opportunities, please respond to all questions 6-17.

- 6. Please describe any experience you may have in performing system studies for an electric utility transmission and/or distribution system. Include in your answer software tools you used, and the process used to perform the studies.

- 7. Please describe your experience using GE PSLF for capacity planning, contingency analysis, and load flow studies.

- 8. Please describe your experience supporting Operations and Maintenance and Regulatory Compliance.

- 9. Please describe your experience in substation engineering and standards development.

- 10. Please describe your experience designing, constructing, commissioning, and troubleshooting utility substations citing specific projects you have completed and specific equipment you have worked with.

- 11. Please describe your experience with protection and control systems, communication systems, project management.

- 12. Please describe your Project Management experience with electric transmission, substation, or distribution systems.

- 13. Please describe your experience with scheduling, cost estimating and/or budgeting of electric transmission and distribution projects.

- 14. Please describe your experience with working with engineering, operations, construction, maintenance, administrative and support staff.

15. Please describe your experience performing distribution system planning studies, modeling and simulation, load forecasting and data analytics. Include in your answer software tools you used and the process used to perform these tasks.

16. Please describe your experience working with designing distribution system, distributed energy resources interconnection systems, distribution protection systems and distribution automation systems.

17. Please describe your experience preparing engineering documents. These may include engineering specifications and standards, process and procedures, engineering reports, etc.

* Required Question