



City of Lodi
Senior System Protection, Automation and SCADA
Engineer

SALARY	\$67.44 - \$81.97 Hourly \$5,395.04 - \$6,557.71 Biweekly \$11,689.26 - \$14,208.37 Monthly \$140,271.12 - \$170,500.41 Annually	LOCATION	Electric Utility 1331 S. Ham Lane Lodi, CA
JOB TYPE	Full Time	JOB NUMBER	1334.8.2024
DEPARTMENT	Electric Utility	OPENING DATE	08/12/2024
CLOSING DATE	Continuous		

Job Description



The City of Lodi Electric Utility Department is seeking a strong candidate to provide engineering support in collaboration with the transmission and distribution planning department. The candidate will have a strong background in protection/coordination of transmission and distribution systems.

The City of Lodi is home to 68,000 residents, ideally located adjacent to Highway 99 and I-5, 34 miles south of Sacramento, 10 miles north of Stockton and 90 miles east of San Francisco. The City of Lodi is a community surrounded by lush parks, wineries, museums, a lake and open space.

Benefits include: CalPERS Retirement, Deferred Compensation - Three percent (3%) Match, Medical/Dental/Vision/Chiropractic, 9/80 Work Schedule, and more...

All applications and supplemental questions must be completed fully and submitted on an official City of Lodi application form. Applications will be accepted and processed until a sufficient number of qualified applications have been received. This recruitment may close without further notice; interested candidates should apply as soon as possible.

Job descriptions are intended to present a broad and general range of duties which includes, purpose, responsibilities, and scope of work. Job descriptions are not intended to reflect all duties performed within the job.

DEFINITION

Under minimal supervision, provides engineering support, in collaboration with the transmission and distribution planning department, for the operation of transmission and distribution system including troubleshooting, testing and maintenance of all protection relays, substation and line automation equipment, substation hardware (disconnect switches, circuit breakers, etc.) SCADA, relay databases, and other operational tools.

SUPERVISION EXERCISED AND RECEIVED

Receives general supervision from higher-level personnel.

Examples of Duties

Utilizes transmission and distribution system modeling and analysis tools to determine optimum system protection and coordination;

Performs future and real-time switching and system study to provide favorable system configuration to maximize substation and circuit utilization;

Creates and prepares test reports, procedures and test plans for Substation Technicians, Troubleshooters and Construction Crews for any and all protection and automation devices including SEL protection relays, remote-terminal units (RTUs) and

RTACs, power meters, line reclosers and controllers, capacitors and controllers, CTs, VTs, power transformers, circuit breakers, and more;

Tests and commissions substations and substation equipment, line devices and other electric utility equipment in SCADA;

Creates and builds substation one-lines and other system views in SCADA ;

Maintains the overall SCADA system and network;

Maintains the secure SCADA communication network;

Maintains, updates and implements existing and new direct transfer-trip (DTT) schemes with internal and external customers;

Utilizes and updates the existing relay database with all necessary substation and line equipment, as well as using the ability to send test forms to Substation Technicians for an automated testing and report process;

Collaborates with Substation Technicians, Troubleshooters, and Construction Crews to determine maintenance intervals and activities for existing and new equipment both inside and outside of the substation, specifically for protection and automation equipment, or related;

Provides expert engineering guidance and oversight for any and all protection, coordination, automation, SCADA, and relay database related items;

Understands PG&E's G5 Interconnection process and testing requirements for all incoming PG&E transmission and sub-transmission sources;

Identifies potential failure points using previous and future data trends;

Understands and correctly implements IEC61850 GOOSE, mirrored bits, SEL, DNP3 and Modbus communication protocols and they're underlying roles as needed;

Collaborates with multiple third-party vendors and consultants to enhance existing systems and technologies and implement new or future features;

Creates documentation and procedures based on existing and new workflows

Understanding or willingness to learn and utilize existing and new technologies and equipment to create applications for internal and external customers

Provides continuous improvement to existing and new systems and technologies from prior experience and by attending tradeshow and conferences;

Performs other duties related to the operation of the department and the city, including additional duties that enable the department and City to meet the diverse needs of its community.

Typical Qualifications

Any combination equivalent to education and experience that would likely provide the required knowledge and ability would be qualifying. A typical combination is:

Education:

Bachelor's degree in Electrical Engineering or related discipline from an accredited college or university.

Experience:

Five (5) years of experience specifically in protection/coordination of transmission and distribution systems; two (2) years of experience with System Operators; and one (1) year of experience with Milsoft EA, CYME, ASPEN, or a similar engineering analysis tool.

LICENSES AND CERTIFICATES

Possession of a valid Driver's License (Class C) issued from the California Department of Motor Vehicles.

WORK/ENVIRONMENTAL CONDITIONS

Environmental Conditions:

Office and field environment; exposure to a variety of weather conditions; may be required to travel from site to site.

Physical Conditions:

Essential and marginal functions may require maintaining physical condition necessary for sitting, standing, bending, stooping, and walking for prolonged periods of time; using various office equipment and handheld devices. Select positions may require the ability to lift and carry up to 20 pounds; effectively deal with situations, which includes dealing with members of the public.

*FLSA Status: EXEMPT

Supplemental Information

Interested applicants must submit an online application at www.lodi.gov. No paper applications will be accepted. For technical difficulties with your online application, please call the Neogov helpline at 855-524-5627.

Telephone: 209-333-6704. Persons with hearing impairment, please call the California Relay Service 7-1-1.

Selection Process: Only the best qualified applicants will be invited to continue in the recruitment process.

EQUAL OPPORTUNITY EMPLOYER - The City of Lodi is an equal opportunity employer and is committed to a policy of fair employment practices regardless of race, color, ancestry, national origin, religion, sex or sexual orientation, marital status, age, mental or physical disability or perceived disability, medical condition, pregnancy, political affiliation or belief, or other unlawful discrimination.

AMERICANS WITH DISABILITY ACT - In compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, the City of Lodi provides reasonable accommodation for qualified individuals with disabilities. Individuals with disabilities requiring accommodations must contact the Human Resources Division upon application submittal to confirm the request.

CRIMINAL BACKGROUND INFORMATION - City of Lodi is authorized and required by the state of California to access Local, State, and/or Federal criminal history as part of the testing process. This process can be completed by initial fingerprinting and/or a full Background investigation pursuant to Penal Code §11105(b)(10), §11105.3, §13300(b)(10); Education Code §10911.5; Public Resources Code §5164) and in compliance with the City of Lodi's Fingerprinting Policy and Procedure. As a future employee or volunteer, you are required to be fingerprinted and processed through the Department of Justice and cleared before you can start. All information obtained will be kept in strict confidentiality.

HIRING PROCEDURE - Applicants must possess the minimum qualifications by the final filing date. Eligible lists are established upon successful completion of the selection process. The candidates must be successful in each part of the testing. To fill each vacancy the hiring department will request names to be certified from the eligible list and will make a selection from this certification list.

CONDITIONAL JOB OFFERS - Conditional job offers are subject to successful completion of a medical drug screen and/or physical. Candidates should not quit or give notice to their current employer until final notification has been awarded by the Human Resources Division.

MEDICAL-DRUG SCREENING – All positions may be subject to a physical or drug screen issued by a qualified medical physician assigned by the Human Resources Division. Under the requirements of the Drug Free Workplace Act of 1988, the City of Lodi has been designated as a drug-free workplace.

APPOINTMENT - At the time of appointment all candidates will be required to execute an oath of allegiance and complete Form I-9 - Employment Eligibility Verification in compliance with the Immigration and Naturalization Act. United States citizenship is not required. All new appointees are required to successfully complete a probationary period of twelve months.

EMPLOYMENT BENEFITS

SALARY - The starting salary is the first rate shown on the job announcement. Advancement to the higher steps of the salary range is based upon merit in accordance with the Salary Ordinance and Rules for Personnel Administration. Eligibility for the first merit increase is effective after 12 months and for additional merit increases after one year intervals until the employee has reached the maximum step.

HOLIDAY, VACATION, SICK, AND ADMINISTRATIVE LEAVE - Holiday - An average of 13 paid holidays per year. Vacation - 2 weeks paid vacation annually, increasing with length of service depending upon the appropriate labor agreement. Sick Leave - 10 days per year depending upon the appropriate labor agreement. Administrative Leave - Management/Mid-Management positions receive 80 hours per fiscal year, and specified professional/technical positions receive 40 hours per fiscal year (Pro-Rated).

HEALTH INSURANCE - Medical, Dental and Vision plans are available for employee and dependents. A portion of the premiums may be the employee's responsibility.

LIFE INSURANCE AND LONG TERM DISABILITY - The City pays the full premium for employee and dependent life insurance, and offers a long-term disability plan that provides up to approximately 2/3 of an employee's salary.

RETIREMENT AND DEFERRED COMPENSATION - The City of Lodi is a member of the Public Employees' Retirement System (P.E.R.S.). Lodi is not a member of the Social Security System except for the required medical contribution. Employees may participate in a 457 Deferred Compensation program.

FLEXIBLE SPENDING ACCOUNT - Employees may participate in a Section 125 Flexible Spending Account.

IMPORTANT NOTE: This bulletin does not constitute an expressed or implied contract. Any provisions or job duties contained in this bulletin may include modifications pending labor agreements and/or council approval.

Agency

City of Lodi

AddressCity Hall
221 West Pine Street, 2nd Floor
Lodi, California, 95240**Phone**

(209) 333-6704

Website<http://www.lodi.gov>

Senior System Protection, Automation and SCADA Engineer Supplemental Questionnaire

*QUESTION 1

I understand that in order for my application to receive every consideration in the selection process, I must complete all of the application (education, experience, etc.) along with the following Supplemental Questions and provide concise but detailed answers. I understand these responses must match the information I provide in the Work Experience and Education sections of my application. When answering narrative descriptions of my experience, I understand that I must include the name of the employer, dates of employment, and the name and phone number of my supervisor.

Do not refer to a resume or other documentation in lieu of completing the employment history section or responding to the supplemental questions; they will not be reviewed or considered.

I certify that all the information provided on my application and this Supplemental Questionnaire is true to the best of my knowledge.

I have read and understand the above instructions

*QUESTION 2

The supplemental questions were designed to elicit your experience as it relates to the current recruitment in order to identify the best qualified candidates for this position. Only the best and most suitably qualified candidates will be invited to participate in the oral interviews. By selecting yes below, you certify your understanding that all applicants who meet minimum qualifications are not guaranteed to move forward in the process. Do you understand the above statement?

Yes

No

*QUESTION 3

Do you possess a Bachelor's degree from an accredited four year college or university with major coursework in electrical engineering or related discipline?

Yes

No

*QUESTION 4

Describe your recent work experience and how it has prepared you for this position? If no experience, enter N/A.

*QUESTION 5

Describe your experience maintaining an overall SCADA system and network. If no experience, enter N/A.

*QUESTION 6

Please describe your experience with the following engineering analysis tools: Milsoft EA, CYME, ASPEN If no experience, enter N/A.

***QUESTION 7**

Please indicate below the years of relevant experience you possess in the protection/coordination of transmission and distribution system.

- I do not have any engineering experience
- Less than two (2) years of experience
- Two (2) to four (4) years of experience
- Five (5) or more years of experience

***QUESTION 8**

Describe your experience working with field departments including Substation Technicians, Electric Technicians, Trouble-men, and Line Construction as it relates to switching and protection related functions and commissioning. If no experience, enter N/A.

***QUESTION 9**

Describe your experience working in Substations, as it relates to protection and control equipment. If no experience, enter N/A.

***QUESTION 10**

Describe your experience with maintenance related activities for medium and high voltage equipment, as well as any maintenance plans and schedules (if applicable). If no experience, enter N/A

* Required Question