

CITY OF ALAMEDA
invites applications for the position of:



Electrical Engineer / Senior Electrical Engineer

SALARY:	\$71.71 - \$87.17 Hourly \$134,249.00 - \$163,180.00 Annually
DEPARTMENT:	Alameda Municipal Power
OPENING DATE:	10/10/22
CLOSING DATE:	11/10/22 05:00 PM
FLSA STATUS:	Exempt
NATURE OF POSITION:	

Electrical Engineer / Senior Electrical Engineer (4-day/36 hour work week)

Alameda Municipal Power (AMP) is looking to fill **one (1) full time engineer position at the Electrical or Senior level**. This is a full-time position with a **4-day/36-hour work week**, with an **outstanding benefits** package including a **pension plan** and a modern **work-life balance**.

Please review the following information closely as classification requirements, desirable qualifications, and eligible benefits vary based on position and bargaining unit.

Compensation Ranges

Electrical Engineer: \$109,588 - \$133,205 annually (FLSA exempt)
Senior Electrical Engineer: \$134,249 - 163,180 annually (FLSA exempt)

Benefits of Employment

For a comprehensive listing of benefits, see the Benefit Matrix [here](#).

- Four day, 36 hour work week (Monday through Thursday)
- CalPERS Retirement: Classic Members: 2% at 55 formula, 8.868% contribution; New Members 2% @ 62 formula, 8.25% contribution.
- Medical: City-paid medical contribution covers premiums for you and your family The City contracts with CalPERS to provide comprehensive health coverage to employees. Multiple HMO and PPO plans available
- Dental: City-paid dental contribution covers premiums comprehensive coverage for you and your family.
- Vacation: Starting with 75 hours annually and increasing with years of service.
- Holidays: 10 City Holidays and 3.5 floating Holidays
- Sick Leave: 90 hours annually; unused sick leave is converted to service credit at retirement

This is an exciting opportunity to be part of a great team making a significant impact in the local community. Read on to learn more about AMP and this career opportunity.

About Alameda Municipal Power

AMP was founded in 1887 and is one of the oldest continuously operating electric utilities west of the Mississippi River. The utility has just over 35,000 customers comprising approximately 30,000 residential accounts and 5,000 commercial/government accounts. As a community-owned utility, AMP has much to offer its customers including the delivery of 100% clean energy (among the first in the nation to do so); rates that are 20% below the neighboring investor-owned PG&E; and a power reliability record that is among the top in western states.

We maintain local control so that we can re-invest in the island and provide value to enrich our lives, businesses, and the community. We've seen a lot of change in over 130 years, but through it all there's been one constant: We're as committed today to delivering safe and reliable electricity to the residents and businesses of Alameda as we were in 1887. We'll continue to invest in new and improved ways of doing business to manage costs, improve our service, and improve the environment.

About the Division/Position

This is a dynamic time for electric utilities and AMP's Engineering & Operations Division plays a key role in shaping the design, construction, and operation of the transmission and distribution system. The Engineering Section works very closely with the Operations Section (Line, Substations, Metering, and System Control) to achieve safe and reliable distribution of electricity every day.

As part of the team, you will have the opportunity to create and implement a variety of programs that help in achieving AMP's goals and vision.

We are looking for a colleague with exceptional technical knowledge, program and project management skills, attention to detail, excellent communication skills, and an interest in learning new skills to meet the ongoing needs of the highly dynamic energy sector.

DISTINGUISHING FEATURES:

EXAMPLES OF DUTIES:

Examples of duties - Electrical Engineer:

- Prepares and may supervise the preparation of plans, specifications and cost estimates for the construction and repair of overhead and underground electric power transmission and distribution systems.
- Manages utility construction projects, taking responsibility for contract administration, schedule coordination, public relations, liability claims, inter-utility coordination, and quality control. Field decisions and supervision of tests may be required.
- Makes recommendations for the electric utility in areas such as electric power, transmission, distribution substations, system operation, system protection, metering, energy management, lighting, communications, load forecasting, system planning, budget planning, transmission and distribution routing studies and easement acquisition.
- Works with and provides guidance to the utilities' customers in establishing utilities' service requirements and efficient usage and outside consultants working on major programs.
- Coordinates construction operation and maintenance of system transmission, distribution and generation with other utilities.
- Monitors utility compliance with State and Federal regulations; makes recommendations and may develop and implement procedures for compliance.
- Develops and implements operation, maintenance, and testing procedures for utility facilities.

- Performs complex electrical calculations and analysis; conducts various studies in areas such as protection coordination, system planning and load forecasting.
- Assists in long-range planning of utility capacity and reliability.
- Assists in the preparation of the utility's annual budget and capital improvement plans.
- Supervises, trains and evaluates assigned staff.

Examples of Duties – Senior Electrical Engineer

- Responsible for preparation of plans, specifications and cost estimates for complex electrical equipment and installations; recommends system additions and improvements.
- Performs complex engineering design for transmission, substation and distribution protective relaying using microprocessor-based relays including relay logic and settings configurations. Prepares relay testing and commissioning forms. Mentors electrical maintenance technicians and engineers in testing and understanding various protective schemes. Updates substation equipment schematic and wiring diagram for any completed modifications or upgrades
- Manages and oversees various construction projects (internal and external); coordinates directly with developers, design consultants and contractors; ensures designs and construction comply to standards. Works with developers, contractors and AMP compliance inspectors to resolve conflicts or design changes. Performs testing and acceptance of work and equipment.
- Reviews customer design permit application package for new business, subdivisions, service upgrades, etc., coordinates and communicates with customers, developers, outside consultants, contractors, and other city departments to ensure compliance with AMP safety and construction standards.
- Performs various complex engineering analysis and studies such as short circuit, arc flash, power factor correction, protection coordination, voltage drops, pole loading, etc.
- Uses various software, such as Microsoft Office applications, GIS applications, system modeling software, and various specialized equipment and systems software.
- Reviews and approves work of technical and engineering staff including completed project designs. Helps resolve design, construction and maintenance issues. Provides training to engineering and operations personnel for new equipment and smart devices.
- Assists and provides guidance to electrical maintenance technicians on Supervisory Control and Data Acquisition (SCADA) database mapping and Human Machine Interface (HMI) configurations. Performs integration of new microprocessor-based protective relays and automation controllers into SCADA systems including testing and commissioning and system operator training.
- Provide technical support in troubleshooting SCADA issues including fiber communications, ethernet switches, Remote Terminal Units (RTUs) and Real Time Automation Controller (RTAC) devices, investigates and resolves SCADA alarms, software and hardware problems, and firmware upgrades.
- Investigates and analyzes system events using the events file gathered from the microprocessor relays and SCADA. Provides findings and technical recommendations and corrective measures.
- Mentors and trains engineering and technical staff members on electrical and engineering topics including distribution protection, specifications, design techniques for overhead and underground distribution systems, AMP design and construction standards, rules and regulations.
- Provides technical support and consulting to other internal divisions/sections, consultants, and other city departments.
- Reviews, researches and makes recommendations in the updating of construction standards, engineering design guidelines, rules and regulations, and equipment and material technical specifications.
- Supervises professional engineers and technicians engaged in the performance of various system studies including system planning, loss evaluation, protection coordination and load forecasting.
- Prepares and reviews technical specifications and statements of work for labor, materials, and equipment to be purchased. Performs feasibility studies and market research; evaluates bids and prepares reports for the Public Utilities Board.
- Assists the Engineering Manager to supervise, train, and evaluate assigned staff; participates in the selection of staff, develops and monitors employee training; develops

and monitors employee performance benchmarks; performs ongoing employee observation to ensure quality assurance and employee excellence; works with employees to correct deficiencies.

- Assists the Engineering Manager in preparing budgets, identifying priority projects, and preparing cost estimates.

EMPLOYMENT STANDARDS:

Qualifications to Apply

The City of Alameda requires all new employees to be fully vaccinated against COVID-19 by the start of employment. Possession of the employment standards does not guarantee advancement to the examination or placement on the eligible list. Any combination equivalent to education and experience likely to provide the required knowledge and abilities. A typical way to obtain the knowledge and abilities would be:

Electrical Engineer Education and Experience:

The Electrical Engineer requires graduation from a four-year college or university with major course work in Electrical Engineering, and three years of professional utility power system engineering experience. The Electrical Engineer also requires registration as a Professional Electrical Engineer with the State of California.

We will also consider an equivalent combination of education and experience that meets the stated qualifications.

Senior Electrical Engineer Education and Experience:

The Electrical Engineer requires graduation from a four-year college or university with major course work in Electrical Engineering and six (6) years of progressively responsible experience in planning, design, and operation of electric utility power systems, at least two (2) years of which must have been in a supervisory capacity level. The Senior Electrical Engineer also requires registration as a Professional Electrical Engineer with the State of California.

We will also consider an equivalent combination of education and experience that meets the stated qualifications.

Candidates who are registered out of state as a Professional Electrical Engineer are encouraged to apply. Successful out of state candidates would need to have the ability to obtain a State of California license within 6 months of hire to be considered for the Electrical and/or Senior levels.

Possession of a valid Driver's License and satisfactory driving record at the time of appointment is required as a condition of initial and continued employment only if the operation of a vehicle, rather than the employee's ability to get to/from various work locations in a timely manner, is necessary to perform the essential functions of the position.

Please submit an **online application** detailing your work experience and attach a **cover letter** and **resume**.

Selection Process

The examination process may include an application and supplemental questionnaire evaluation, a written exam, a performance exam, and/or an oral interview. The examination process may test for, but is not limited to, the essential knowledge and abilities listed in the job specification and announcement and will be designed to provide a comprehensive review of each candidate's technical knowledge and overall suitability for the position.

Qualified applicants will be notified of the exact date, time, and location of examinations approximately two weeks in advance. If applicants have not received written notice at least one week prior to the tentative test date listed in the flyer, they should contact the City of Alameda Human Resources Department at (510) 747-4900.

Candidates passing all components of the examination process will be placed on an Eligible List. A list of names is certified to the department(s) having vacancies based on the type of examination conducted pursuant to the provision of the City's Civil Service Rules. Final selection will be made from the Eligible List by the Department Head subject to approval by the City Manager. The Department Head may utilize additional selection procedures to make a final hiring decision. Placement on an Eligible List does not guarantee employment. Prior to appointment, a thorough reference check will be conducted which may include a credit check and background. The selection process may be evaluated and revised based on the number of qualified applicants. Federal law requires that prior to employment, you must furnish proof of your identity and eligibility for employment in the United States, as required the U.S. Citizenship and Immigration Services.

E-VERIFY: The City of Alameda utilizes the Federal government's E-Verify program and new employees must provide documentation to establish both identity and work authorization, which includes showing a valid United States Social Security card at the time of hire (photocopies not accepted).

VETERAN'S PREFERENCE CREDIT: A job applicant qualifies as a veteran if honorably discharged from active military, reservist, or National Guard duty of at least 18 consecutive months within the past five (5) years of the date of application. In case of discharge attributable to service-connected injuries or illnesses, the 18 months active duty requirement need not be fulfilled. An applicant claiming veteran's preference credit must attach to their application, a legible copy of their **DD-214** verifying the type of discharge and date(s) of active service. **NO OTHER DOCUMENTATION WILL BE ACCEPTED.**

AN EQUAL OPPORTUNITY EMPLOYER

In compliance with local, state and federal laws and regulations, the City of Alameda will employ and promote qualified individuals without regard to disability. The City is committed to making reasonable accommodations in the examination process and in the work environment. Individuals requesting reasonable accommodations in the examination process must do so no later than the final filing date for receipt of applications, otherwise it may not be possible to arrange accommodations for the selection process. Such requests should be addressed to the Human Resources Department | 1-510-747-4900 | hr@alamedaca.gov | 2263 Santa Clara Avenue, Rm. 290, Alameda, 94501. Requests can be made via email, phone, or in writing via U.S. mail.

The information contained herein is subject to change and does not constitute either an expressed or implied contract.

APPLICATIONS MAY BE FILED ONLINE AT:
<https://www.alamedaca.gov/Departments/Administration/Human-Resources>

Position #2022-7210-02
ELECTRICAL ENGINEER / SENIOR
ELECTRICAL ENGINEER
CL

2263 Santa Clara Avenue, Rm. 290
Alameda, CA 94501
(510) 747-4900

HR@alamedaca.gov

Electrical Engineer / Senior Electrical Engineer Supplemental Questionnaire

- * 1. By selecting "Yes" below, I certify that the information contained in this Supplemental Questionnaire is true, complete, and provides an accurate assessment of my knowledge, skills and abilities as they relate to this position with the City of Alameda. I understand that any misstatements or omissions of material facts may subject me to disqualification or dismissal, and that appropriate tests may be given to verify the accuracy of the information given.

Yes No

- * 2. Please select the level(s) you wish to be considered for: A. Electrical Engineer B. Senior Electrical Engineer C. Both Levels (Electrical Engineer and Senior Electrical Engineer)

3. Which of the following registrations do you currently possess? (Specify all that apply):
A. Professional Electrical Engineer in the State of California B. Out of state registration as a Professional Electrical Engineer C. None of the above

4. If registered as a Professional Electrical Engineer in the State of California, please provide your California Professional Engineer license number. If not applicable or in progress, please put "N/A" or state progress of licensure.

* Required Question