

Job Posting Preview

14-Jun-2019

Facilities Electrician

Facilities & Security Operations

Purpose

This posting intends to fill an Electrician position in our Facilities Department.

An Electrician does skilled mechanical and electrical work in and about electric substations, underground systems, and power generating plants.

This posting is also intended to create an eligibility list which may be used to fill future vacancies and can be active for up to two years.

Position Type	No. of Openings
Regular - Full Time	1
Pay Scale Group	Base Salary Hourly Low
IBEW916*	\$53.66
Base Salary Hourly High	Selection Process
\$53.66	Qualifications Interview, Hiring Interview

Major Duties & Responsibilities

New Construction/Installation of Equipment

- Installs steel structures, insulators, and bus; installs high voltage switches, disconnects, and fuses.
- Installs, splices, and terminates high-voltage cables; installs high voltage transformers and circuit breakers; installs conduit, wireways, raceway, fittings, wiring, cabling, conductors, and circuits.
- Installs underground service conduit, cables, and ground grids; installs equipment, switchgear, motor control centers, motor operated valves, and pressurized systems; installs and maintains batteries and related equipment.
- Operates equipment such as boom and bucket trucks, forklifts, aerial equipment, cranes, and uses rigging and lifting techniques to install large equipment.
- Reads and interprets mechanical drawings, diagrams, and instructions such as layout and erection diagrams, structural elevations, exploded views, cutaway diagrams, and related information.

- Reads and interprets electrical drawings and diagrams such as wiring diagrams and schedules, schematic and elementary diagrams, one lines, and related information.
- Follows processes and procedures for oil handling/testing during installation of large oil filled electrical equipment.
- Installs Microprocessor Relay panels and Protection Schemes for Line, Bus, Generator, and Transformer protection.
- Installs RTU and SCADA equipment and PLC's.

Maintenance and Testing

- Maintains, tests, troubleshoots and repairs power transformers and auxiliary equipment such as bushings, surge arrestors, cooling equipment, and tap changers.
- Maintains, tests, troubleshoots, and repairs power circuit breakers and operating mechanisms including hydraulic, pneumatic, solenoid operated and other stored energy systems.
- Maintains, tests, troubleshoots, and repairs motors and motor control equipment; maintains, tests, troubleshoots, and repairs control circuits.
- Reads and interprets mechanical and electrical drawings and diagrams.
- Follows safety procedures when performing clearance, switching, verification, grounding, and working on or around high voltage systems

Use of Equipment and Tools

- Tests storage batteries; uses hand tools and small power tools such as drills, grinders, sanders, saws, and cutters.
- Uses bucket and boom trucks, forklifts, and aerial equipment.
- Climbs ladders and steel structures; uses fall protection equipment for working at heights.
- Uses electrical test equipment such as voltmeters, ammeters, ohmmeters, DC insulation resistance testers, transformer turns ratio testers, AC and DC high potential test sets, and circuit breaker testers.

Minimum Qualifications

Education:

Journey level (3+ years) in the installation, connection, and maintenance of electrical equipment in high voltage transmission and distribution substations, switchyards and large power generating plants. Basic computer and key boarding skills.

Knowledge of:

Basic mathematics including multiplication, division, addition, subtraction, decimals, fractions, square roots, exponents, and basic algebra and trigonometry in order to compute calculations and understand electrical theory; hand and power tools such as drills and power saws in order to perform installations and preparations in electrical areas; electrical terminology and theory; appropriate use of English grammar in order to understand and comprehend instructions and communicate information; electrical safety rules and regulations; preventative maintenance on electrical equipment; electrical installations; switchgear; electrical rotating machinery, such as motors and generators; common and special tools used in electrical work; ferrous and nonferrous

materials; procedures to machine a variety of materials; and, sheet metal work, lay out and manufacture.

Desirable Qualifications

- Facilities Maintenance experience – Inside wireman and control work
- Completion of a 4 year apprenticeship from an approved training program
- Completion and Current Arc Flash Safety training (specify date of last class under certifications)
- Battery maintenance and procedures experience
- Standby Generator and Automatic Transfer Switch (ATS) maintenance experience
- UPS maintenance experience – Maintenance and Monitoring – Alber System experience preferred
- Photovoltaic system and their inverters – Maintenance and Monitoring experience
- Electric Vehicle Charging Station – Maintenance and Installation experience
- Data Systems/Cat VI testing and cabling experience
- Knowledge of the CCR Title 24 California State Energy Code
- Building Automation System – Siemens experience preferred
- Lighting control system experience/programming – Lutron experience preferred

Licenses/Certificates

None

Physical Requirements

Work under adverse conditions, such as extreme heat. Take a physical examination and meet an acceptable standard determined by SMUD's physician.

Position Location

Sacramento - S Street

Job Code

50051647 ELECTRICIAN

Additional Posting Info for Candidate

Sacramento Municipal Utility District (SMUD) - Who We Are

As the nation's sixth-largest community-owned electric service provider, we're proud of our reputation as one of the best places to work in Sacramento. Our employees tell us in our engagement surveys they're "Happy, satisfied and engaged" which helps create a workplace that best serves our customers.

Sacramento was named as the 2nd happiest place to work in America by Forbes Magazine. Lake Tahoe, San Francisco and the world-renowned Napa Valley are within easy driving distance of our locations.

Our Commitment to Diversity & Inclusion

SMUD respects, values and celebrates the unique attributes, characteristics and perspectives that make each person who they are. Diversity and inclusion are guiding principles to deliver a culture that reflects the broader values of the community and our customers. Our Board's policy for Employee Relation sets our commitment to developing and maintaining a high quality, inclusive workplace that engages and inspires employees to commit to SMUD's purpose, vision and values.

Why Sacramento, California?

The capitol of California, Sacramento is the state's sixth-largest city, and the 35th largest in the U.S. Local universities include California State University, University of the Pacific's McGeorge School of Law, and the University of California, Davis and several competitive community colleges. The UC Davis Medical Center, a world-renowned research hospital, is one of more than a dozen hospitals and shared services centers in the Sacramento region. Part of the agriculturally-rich Central Valley, Sacramento is at the forefront of the farm-to-fork food movement. Northern California is home to some of the country's top technology companies, including Google and LinkedIn, and a multitude of startups in many industries. Sacramento is home to the NBA Kings, the River Cats (AAA baseball), the Republic FC (soccer) and the San Francisco Giants, NBA Warriors and NFL 49er's aren't far away. Sacramento offers an affluent liberal arts community with Broadway, Mondavi Center, Crocker Museum and summer musical theater to name a few.

To apply, please visit: smud.org/careers

Job Expires

27-Jun-2019

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