



## **PG&E Talent Connect**

### ***Job Posting Title***

Senior Protection Engineer - ESC - San Ramon

Job Posting Date: 10/18/2016

Requisition #: 53832931-E01

Job Category: Engineering / Science

Job Level: 2. Individual Contributor

### ***Company***

Based in San Francisco, Pacific Gas and Electric Company, a subsidiary of PG&E Corporation (NYSE:PCG), is one of the largest combined natural gas and electric utilities in the United States. And we deliver some of the nation's cleanest energy to our customers in Northern and Central California. For PG&E, "Together, Building a Better California" is not just a slogan. It's the very core of our mission and the scale by which we measure our success. We know that the nearly 16 million people who do business with our company count on our more than 24,000 employees for far more than the delivery of utility services. They, along with every citizen of the state we call home, also expect PG&E to help improve their quality of life, the economic vitality of their communities, and the prospect for a better future fueled by clean, safe, reliable and affordable energy.

Pacific Gas and Electric Company is an Affirmative Action and Equal Employment Opportunity employer that actively pursues and hires a diverse workforce. All qualified applicants will receive consideration for employment without regard to race, color, national origin, ancestry, sex, age, religion, physical or mental disability status, medical condition, protected veteran status, marital status, pregnancy, sexual orientation, gender, gender identity, gender expression, genetic information or any other factor that is not related to the job.

### ***Department Overview***

The men and women of Electric Operations ensure the delivery of safe and reliable electric service to our customers. Electric Operations is responsible for every aspect of PG&E's electric distribution and transmission operations, including planning, engineering, maintenance and construction, asset management, business planning, restoration and emergency response.

### ***Position Summary***

This position is represented by Engineers & Scientists of California (ESC) subject to collective bargaining.

This is a senior-level engineer job that requires mastery of the journey engineer job duties and is responsible for complex system protection duties. This position requires a low level of training, direction and review of work from more senior engineers and peers. This job is responsible for



providing technical protection engineering for routine and complex projects and maintenance/operation support including, but not limited to: issuing protection requirements, relay and automatics settings, processing clearances, and investigating relay operations.

### **Qualifications**

Minimum:

- A 4-year BS Degree in Electrical Engineering or a related technical discipline from an accredited curriculum in the US or the equivalent from outside the US.
- Mastery of the associate and journey protection engineer job duties in respective discipline and demonstrated knowledge and ability to perform the basic duties of the Senior Protection Engineer. Meets specific technical requirements gained through a minimum of eight years of cumulative experience in the field of system protection.

Desired:

- Ability to calculate relay settings for all station automatics schemes, transmission line relaying, transformer bank protection, bus protection, generator protection, and breaker failure schemes
- Thorough computer application and fault analysis program knowledge
- Knowledge of symmetrical component theory and ability to perform fault calculations
- Understanding of logic gate theory and control circuitry
- Knowledge of protection equipment, instrumentation and test procedures
- Ability to analyze relay operations and determine fault locations
- Able to work with moderate supervision and guidance to meet project commitments, both independently and/or as a member of a team
- Able to understand and implement the technical requirements of interfacing engineering disciplines
- Demonstrates informed judgment when making decisions and recommendations
- Uses independent judgment in applying engineering principles and techniques to determine cost effective and practical solutions
- Ability to manage and complete numerous non-conflicting projects concurrently
- Interprets applicable codes, industry standards and regulations and educates others
- Can provide thorough analysis of issues and justification of recommendations
- Takes ownership of problems and their solutions

### **Responsibilities**

May perform all the functions of Associate and Journey Protection Engineer, and in addition:

- Perform protection work on large and complex projects
- Coach, direct, and assist technical employees and teams. May act as team leader
- Performs root cause analysis and makes recommendations to address local and system-wide implications under emergencies
- Mentor lower level protection engineers

Resolves problems of complex scope. Assignments may provide an opportunity for creative or non-standard approaches. Under general direction, independently plans work to meet assigned general objectives. Work may be reviewed upon completion; solution may provide an opportunity for creative/non-standard approaches.

To implement various aspects of the above job requirements, will work with all levels of personnel



to obtain cooperation, persuade, exchange and/or provide information. Lead and/or attend meetings representing the group to perform job duties. External contacts limited primarily to obtaining, exchanging and providing information to vendors, manufacturers, other utilities, and consultants on non-routine issues. May participate in professional affiliations (i.e. PSRC, IEEE) to keep abreast of new industry trends, developments and procedures. May represent the company on committees.

Employment Type: ESC

Schedule: Full-time

Work Location: Bishop Ranch 1, Building Y

City: San Ramon

Zip Code: 94583