San Diego Gas & Electric

Electrical Engineer

Job Descriptions & Career Progression

Engineer Rotational - Program Overview

The Engineer Rotational program is an 18 month program, in which participants are recruited from various colleges, and are hired as Associate Engineers.

As an associate engineer, they are required to complete three 6-month rotations in three different areas of the company. This allows the participants to decide the exact path they are interested in by providing them experience in several different departments.

Associate Engineer - Job Description

An entry level engineer position which provides the inexperienced engineer an opportunity to acquire experience and proficiency in performing fundamental engineering work. In this capacity, the incumbent shall perform the more routine and basic duties and will be afforded the opportunity to acquire experience and be productive through varied assignments normally accomplished through intra-company assignments. Perform a variety of engineering assignments, involving electrical, mechanical, civil or other engineering principles, such as:

1. Prepare engineering computations required in carrying out assigned duties.
2. Investigate and analyze problems, and develop appropriate solutions.
3. Conduct tests of instruments, materials, equipment and controls to determine operating characteristics.
4. Prepare reports and write instructions and/or procedural outlines in connection with assignments.

Career Progression

Career progression for participants in the Engineer Rotational Program is based both on various on-the-job time requirements and the achievement of certain professional certifications. The two certifications which must be obtained in order to progress include the Engineer-In-Training certification (EIT) and the Professional Engineer Certification (PE). Moves to a non-engineering role would not require either of these.

Associate Engineer to Engineer II

The first progression is made from the Associate Engineer position, to the Engineer II position. In order to make this move, the following requirement must be met:

- Completion of 18 months in the Rotational Program
- Successful completion of the EIT Certification exam

Engineer II to Engineer I

The second progression is made form the Engineer II position, to an Engineer I position. In order to make this move, the following requirements must be met:

- The Engineer II requirements must first be met (completion of 18 months & pass EIT exam)
- Completion of 2 years of increasingly more challenging work in the engineering field (total time in engineering field, including the Associate Engineer position, should equal 3 ½ years).

Engineer I to Senior Level / Team Lead

The final progression is from the Engineer I position, to a Senior Level or Team Lead position. Once an Engineer reaches a Lead Position, no further certifications are required to advance further. In order to progress to either of these positions, the following requirements must be bet:

- Successful completion of the PE Certification Exam

Engineer Summer Internship - Program Overview

Prepares or assists in the preparation of engineering designs, specifications, standards, studies and cost estimates in support of projects and tasks managed by others. Applies technical knowledge and skills toward the resolution of problems and the development of sound technical recommendations. Tasks may include, evaluation of new and existing products or systems, need for designs or specifications, and development of test apparatus or procedures.

Engineering Interns work under the direction of our Associate Engineers. Your willingness to learn from others and a can-do-attitude will make your experience with SDG&E personally and professionally rewarding. Competitive compensation and reimbursement for work-related travel are part of our investment in your future.

Strong candidates for this position generally require:

- Strong oral and written communication skills
- Strong interpersonal skills
- Good computer skills
- Strong analytical skills
- Relevant coursework
- Leadership activity
- Extracurricular and/or community involvement
- GPA of 3.0 or above
- Must be able to work independently with minimal supervision
- Must be a US Citizen or Permanent Resident Alien
- Junior or first year Senior level students, working on completion of Bachelors of Science degree in Electrical, Mechanical or Civil Engineering

Summer Internship includes:

- Housing provided during length of summer internship (where applicable)
- Networking events
- Competitive compensation
- Reimbursement for work-related travel
- 401K Contributions
- Cash Balance Plan Contributions
- Utility industry experience