



DIVISION: Planning & Infrastructure Development

TITLE: Associate Regional Transmission Engineer

LOCATION: Folsom, CA

DEPARTMENT: Regional Transmission – North & Regional Transmission - South

PRIMARY PURPOSE:

Under the close supervision of the Director of Regional Transmission, Lead or Senior Engineer, provides support on basic engineering studies, supports the planning and operations of the ISO transmission system. Performs related assignments as required.

ESSENTIAL JOB FUNCTIONS:

- Learns to conduct and perform operating studies and contingency analyses including power flow, short-circuit, stability, and post-transient analysis to maintain reliable operation of the power system.
- Investigates and analyzes operational problems and provides appropriate information to Operations Engineers, Grid Planning Engineers, System Dispatchers, Outage Coordinators, Security Monitors, Client Relation Representatives, Market Operations staff, and others within and outside the ISO as required.
- Develops technical writing skills for use in future writing of reports.
- Learns and develops automated computer programs and other advanced analysis methods for comprehensive evaluation of the operational performance of the transmission system.
- Learns the roles and functions of ISO departments including, Grid Operations (Real-time Dispatch), Outage Coordination, Security Coordinators, Client Relations Representatives, Operations Support and Training, and Market Operations.
- Develops familiarity with transmission system planning and operation; learns the structure and functions of an investor-owned utility; gains understanding of utility and generation fundamentals such as transmission line and substation equipment and maintenance, relay protection, operations of hydroelectric and thermal power plants.
- Develops an understanding of regulatory and reliability guidelines, ISO Tariff and Protocols, WECC and NERC planning and operating criteria, CPUC and FERC requirements.
- May provide support in writing Operating Procedures, clearance coordination, responding to real-time events and operation requests, and acting as the On-Call Engineer, as assigned.
- May conduct and review technical analyses for WECC/ISO/PTO transmission systems and proposed system additions; provide support and analyses associated with Reliability Must-Run (RMR) contracts and the Local Area Reliability Services (LARS) process; review new generation interconnection studies; provide congestion analyses; and provide support for contracts and regulatory filings.
- Adheres to and supports the Core Values of the ISO.
- Performs related duties and activities as appropriate.

TYPICAL PHYSICAL REQUIREMENTS:

Most of the time is spent sitting in a comfortable position and there is frequent opportunity to move about. Occasionally there may be a requirement to stoop or lift or handle material or equipment weighing up to 25 pounds. Requires normal manual dexterity and eye-hand coordination, and corrected vision and hearing to normal range. Must be able to work irregular and/or long hours when required.

WORKING CONDITIONS:

Typically located in a comfortable indoor area. There may be occasional exposure to mild physical discomfort from factors such as dust, fumes or odors, loud noise, or bright lights. Most of the time is spent in general office or equivalent conditions which result in little or no exposure to injury or accident.

MINIMUM QUALIFICATIONS:

- **Level of Education**
B.S. degree required. A Master's degree (MS) or PhD degree preferred.
- **Discipline**
Electrical Engineering or related field.
- **Amount of Experience**
This is an entry-level position, no experience required.

● **Type of Experience**

No experience required.

● **Special Certifications of Technical Skills**

Successfully passed the Engineer-In-Training (EIT) exam, desirable.

● **Other**

Must be able to handle a dynamic and changing work environment. Good analytical, verbal and written communication skills required. Ability to set and meet self-imposed deadlines and perform effectively in high-pressure situations while maintaining focus and calmness. Must be able to work effectively in a team environment.

CLASSIFICATION:

- Job Code: Oracle
- FLSA: Non-Exempt
- Created: 12.02.2005
- Last Date Revised: 04.10.2008