



Job Title: Transmission Planning Engineer

Introduction

Grid Subject Matter Experts' (GridSME's) mission is to enable a reliable and sustainable energy future. Our founders built the company with the explicit mission of facilitating change within the energy industry. Our objective is to grow and support this rapid change and enable a growing field of participants. To do that, we need additional energetic, passionate engineers with direct experience in the power and energy industry. This experience should revolve around power flow and transient analysis for transmission and distribution systems, design and integration of renewable and energy storage resources, and a strong familiarity with regional interconnection processes, studies, and standards.

Job Description

GridSME is seeking a Transmission Planning/Power Systems Engineer with at least five (5) years of experience conducting and analyzing power flow studies in the Western, Eastern, and Texas Interconnections. These studies may be attributed to generation interconnection impact studies and/or transmission system and alternatives analysis.

Objectives of this Role

This role will significantly support GridSME's Engineering & Interconnection Services group in serving our clients' project development needs. Our clients and GridSME are actively planning, designing, and building tomorrow's power grid. We are looking for experienced engineers with relevant transmission planning and generator interconnection experience in the U.S.

Desired Technical Skills and Experience

- Experience with Transmission Planning and Generator Interconnection studies as well as regional regulatory knowledge of generation interconnection processes and procedures of ISOs/RTOs and utilities across the United States.
 - Current preference for ERCOT, MISO, NYISO, and PJM experience.
 - Preference for experience with generation interconnection studies for renewable generation resources and energy storage projects.
- Experience performing simulations and studies in support of long-term transmission planning for reliability and resource adequacy, including contingency analysis (steady state and transient stability), power flow modeling, deliverability and capacity assessments, and NERC/Regional Entity compliance reporting.
- Experience conducting and analyzing transmission planning alternatives studies.
- Ability to develop process controls and quality assurance tools to ensure study accuracy.
- Adept at analyzing and assessing the transmission system in response to requests for long-term transmission service or the interconnection of a new generator or load.



- Well-developed skills performing quantitative analysis, running load flow studies, and fatal flaw analysis using PSSE, PSLF, and similar power flow analysis tools.
- Ability to develop electrical system single-line diagrams, 3-line diagrams, and site layouts.
- Experience developing, analyzing, and verifying generator models, and completing generator model validation requests.
- Possess basic understanding of protection systems, telemetry, and metering.
- Experience developing studies, tools, controls, and processes to meet NERC and Regional Entity Reliability Standards.
- Experience in consulting roles and client service, preferred.
- Programming skills in C++, Python, or VBA programming languages is a plus.

Desired Business Skills

- Strong leadership, project management, time management, and problem-solving skills.
- A penchant to identify and remediate inefficiencies in processes.
- Critical thinking and prioritization of resources to provide the most value to our clients.
- Ability to adapt to a changing environment and make timely decisions.
- Entrepreneurial spirit.
- Ability to work and communicate with technical and non-technical clients.
- Work collaboratively within a team environment.
- Excellent written and oral communications skills.

Desired Education and Certifications

- Bachelor's Degree or higher in Electrical Engineering, Power Systems, or similar.
- Engineering-in-Training or licensed Professional Engineer (PE), multi-state a plus.

Why GridSME?

We are a young, fast-growing company in an industry undergoing historic technological and economic changes. GridSME desires to be the intersection between what our people are passionate about and what our clients' value. We are a place where our people grow, do meaningful work, and achieve their professional goals. To do that, we have built a strong team and family which operates in a flexible and candid environment. The perfect blend of autonomy and teamwork. We are all business owners thanks to our profit-sharing program.

We are looking for an experienced power engineer that wants to grow with us. The ideal candidate would work out of our headquarters in Folsom, California – the 2019 #2 ranked city for raising a family and a great place to live if you like affordable homes, great schools, the outdoors, and warm weather.

Compensation

This is a full-time position earning a competitive salary, monthly cash profit-sharing bonuses, an annual cash holiday profit-sharing bonus, and an annual company-wide profit-sharing 401(k) bonus. GridSME



also offers its employees' health insurance benefits, health savings accounts, flexible spending accounts, paid time-off, professional development assistance, tuition reimbursement, and a 6% 401(k) match.

The Application Process

After applying, we will contact promising candidates for an initial phone interview. If there appears to be a match, we will move forward to an in-office interview with our leadership team and others in the company you would be working with. From there, if needed, subsequent follow-up interviews may occur.