Project Leader/Engineer

2489BR

Golden, CO

Regular Employee

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To assist the Transmission and Grid Integration Group with utility variable generation (VG) integration studies and analysis. This position will work closely with senior level engineers, economists, project managers, and scientists to lead and implement complex projects that may include regional integration studies and studies of various mechanisms that will help to integrate VG, such as market mechanisms, demand response, electric vehicles, etc. This person will help to provide technical review for utility integration studies and evaluate/develop new approaches for integration analysis. This person should have the ability to work with utilities, Regional Reliability Organizations, and ISOs/RTOs on VG integration and market issues. This person should have a detailed understanding of utility operational practice and planning methods, and an excellent project management background.

Outreach to broad stakeholder groups that include utilities, transmission planning organizations, and regulators will be an important task for this position. This person should be able to communicate integration results, methods, and issues to a wide variety of both technical- and policy-oriented audiences.

1. Lead or provide technical input and review to integration studies and other analyses of VG integration.
2. Lead model development and implementation of advanced methods for assessing renewable energy impacts on power system operations and planning.
3. Lead modeling efforts that assess the impact of renewable energy on power systems by running advanced
production simulation and market models, or managing contractors for this work. Models may include Plexos, Grid-View, Pro-Mod, Wilmar, MAPS, or others.

4. Lead efforts to critically evaluate and compare advanced unit commitment and economic dispatch strategies and algorithms for variable renewable generation.

5. Lead efforts in risk-based modeling for utility planning and operational models, working with ISOs, RTOs, and appropriate work-groups within the IEEE Power and Energy Society.

6. Deliver presentations at workshops and conferences on utility integration of VG.

7. Publish technical reports on modeling methods and results in technical journals/conference proceedings.

**Required Education and Experience**

Relevant PhD or equivalent relevant education/experience.

Or, relevant Master’s Degree and 3 or more years of experience or equivalent relevant education/experience.

Or, relevant Bachelor’s Degree and 5 or more years of experience or equivalent relevant education/experience.

**Required Knowledge, Skills and Attributes**

Complete understanding and application of project management principles, concepts, practices and standards.

Full knowledge of technical field and related disciplines.

Very good interpersonal, conflict resolution, teaming and communication skills.

**Additional Required Knowledge, Skills and Attributes**

Working knowledge of power system production and reliability models, and familiarity with wind and solar power. Demonstrated leadership in team, task or project lead responsibilities. Excellent interpersonal and communication (oral and written) skills. Experience in project management.

**Preferred Qualifications**

Three years of relevant engineering, science and/or R&D experience. Masters degree or PhD in engineering, science or related discipline. Knowledge of utility integration studies, transmission planning studies, wind and solar plant siting. Specific knowledge in bulk power issues (Variable integration) with the ability to identify issues or opportunities for research. Experience with running analysis with an emphasis on reviewing analysis study outputs. Experienced presenter (will present to DOE, utilities, and regulators). Strong project management and organizational skills.

**EEO Policy**

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