

Job Title: Engineer III - Distribution Grid Planning Modeling and Analysis

At Dominion Energy we love our jobs. That's right. Love. Every day we go to work filled with passion to be excellent, to creatively problem solve and to innovate. These are exciting days for energy companies, and Dominion Energy aims to shape the future of energy in America. We are looking at all of our work with fresh eyes, retooling everything we do, in every part of the company, to operate more sustainably and to deliver energy more reliably than ever. We are looking for interesting, independent thinkers and doers who can help shape the culture of a forward-looking company that's proud of its rich legacy. Are you a change agent? Do you think differently? Do you want to fall in love with your job? If you answered "yes," then read on!

(Note: A partial year of related work experience of 6 months or greater will be considered one year towards the qualifications)

At this time, Dominion Energy cannot transfer nor sponsor a work visa for this position.

This position does not offer relocation assistance.

Job Summary

Engineer III, in Electric Distribution Grid Planning, as a member of the Modeling and Analysis team. The candidate will be part of a team that provides technical support of Electric Distribution Grid Planning's involvement in Integrated Resource Planning. This position is specifically responsible for supporting advanced system studies, analyses, and modeling

Candidate should have strong electrical engineering background with a concentration in electric power systems engineering. Other engineering backgrounds may be considered if presented in combination with a strong electric power engineering background. Candidate should possess strong knowledge of engineering principles and practices that will enable the successful candidate to progress in an engineering career series.

Job activities:

- Power system modeling: transient oscillations, load flow, transient dynamic and electromagnetic simulations, and real time digital simulations.
- Analyze multiple infrastructure interdependencies.
- Maintain and manage equipment data for distribution system assets.
- Perform/support evaluation, design, engineering, and support activities related to traditional utility solutions and a range of non-wires alternatives.
- Model equipment and systems as necessary using engineering software
- Participate in trade and industry organizations and benchmarking activities.

Required Knowledge, Skills, Abilities & Experience

Please make sure all skills and qualifications are listed on your resume in order to be considered

Required: 5 years relevant engineering experience (Note: A partial year of related work experience of 6 months or greater will be considered one year towards the qualifications)

*Please refer to the Education Requirements for Engineer positions

- Full knowledge of engineering theories and principles
- Ability to think analytically and solve complex problems
- Proficient in analyzing all aspects of three-phase AC power flow
- Strong knowledge of substation equipment/operations, relay operations, and distributed energy resources preferred.
- Expertise in power system modeling software: Synergi Electric, PSS/E, PSCAD, ASPEN, MATLAB, Open DSS.
- Demonstrated resourcefulness in developing system models from diverse and indirect data and information sources preferred.
- Relational database proficiency preferred.
- Programming skills for automation of system studies preferred (e.g., Python, C#, SQL, Visual Basic, etc.).
- Planning, organizational and project management skills
- Must possess good communication skills, written and oral

- Must be dedicated to continuous improvement and identifying best practice opportunities
- Must be able to work well independently as well as in team environment

Education Requirements

Engineering Bachelor degree required.

Prefer Electrical Engineering, but will consider other disciplines

REQUIRED ENGINEERING CRITERIA:

For placement of a candidate in the Engineer job series, the following criteria must be met:

- Possess a 4-year engineering degree from an ABET accredited engineering program based on the year that the engineering program was accredited by ABET, or
- Possess a 4-year engineering degree from an institution outside of the U.S. which is accredited through the country's own engineering accrediting body under the Washington Accord as a full signatory, and is a degree that was recognized by the country's accrediting body on or after the date that full signatory status was achieved, or
- Possess a 4-year engineering degree from a non-ABET accredited program and a post-graduate engineering degree from an institution where the undergraduate degree in the same engineering discipline is ABET accredited based on the year the engineering program was accredited by ABET, or
- Possess a 4-year degree in Physics, Chemistry or Math and a post-graduate engineering degree from an institution where the undergraduate degree in the same engineering discipline is ABET accredited based on the year the engineering program was accredited by ABET, or
- Holds or has previously held a valid U.S. Professional Engineer license.

Licenses, Certifications, or Quals Description

Working Conditions

Cold Up to 25%

Energized Wires Up to 25%

Heat Up to 25%

Loud Noise Up to 25%

Office Work Environment 76 -100%

Operating Machinery Up to 25%

Outdoors Up to 25%

Radiation Up to 25%

Travel Up to 25%

Other Working Conditions

Test Description

No Testing Required

Export Control

Certain positions at Dominion Energy may involve access to information and technology subject to export controls under U.S. law. Compliance with these export controls may result in Dominion Energy limiting its consideration of certain applicants.

Other Information

We offer excellent plans and programs for employees. Employees are rewarded with a competitive salary and comprehensive benefits package which may include: health benefits with coverage for families and domestic partners, vacation, retirement plans, paid holidays, tuition reimbursement, and much more. To learn more about our benefits, click here dombenefits.com.

Dominion Energy is an equal opportunity employer and is committed to a diverse workforce. Qualified applicants will receive consideration for employment without regard to their protected veteran or disabled status.

You can experience the excitement of our company – it's the difference between taking a job and starting a career.

