



System Protection - Mid-level ~3 years (Eng II) & Sr. ~5+ years (Eng III)

\$70 - \$120K + rich benefits depending on background, education and experience. Richmond, VA

Expansion of the System Protection Standards group requires top experienced Electrical Engineers.

Seeking Power Systems Engineers and MS/PhD grads in Power Systems & Electrical Engineering passionate about excellence, creative problem solving and innovation for multiple positions. Compensation commensurate with skills and abilities. This position works a hybrid 3/2 (office / remote) weekly schedule.

Work in a team of design engineers developing standards for system protection supporting and integrating 5 GW of solar generation, offshore wind and massive data center load. Familiarity with STATCOMS, IEC-61850 communications protocols will be valuable.

Experience with power system analysis software packages such as PSS/e, Power Gem's TARA software, Aspen One-Liner, Transmission Operations Energy Management System (EMS), etc., is preferred.

- ⊖ Perform engineering work activities and projects for System Protection Standards to develop, maintain, and support system-wide standards for transmission and distribution system protection, communications, metering, and control applications.
- ⊖ Provide expert technical support to other groups for the development and application of protection and control standard designs.
- ⊖ Ensure the proper utilization of standard design modules.
- ⊖ Identify root causes for deviations of standard practices and develop/recommend improvements to existing standards to improve utilization.
- ⊖ Evaluate and recommend new products, applications, and methods considering all stakeholder input to maintain or improve safety, reliability, and efficiency.
- ⊖ Participate in various company teams and industry organizations to enhance ET's system protection performance.

This is a role for a motivated engineer who will balance the ability to work cooperatively in a team environment with the capability to research, seek knowledge and solve problems independently building and sharing expertise.

H1B Visa Sponsorship possible for qualified candidates.

Required Foundations of Education, Knowledge, Skills, Abilities & Experience:

Engineer II: 3+ years of related engineering experience working in the electric utility industry;

Engineer III: 5+ years of relevant engineering experience working in the electric utility industry; in Transmission System Operations, Substation Engineering, System Protection, Distribution Planning, or Transmission Planning.

*Note: A partial year of related work experience of 6 months or greater will be considered one year towards the qualifications;
An advanced degree (obtained by May 31st, 2022) can count as one-year of experience.

Relevant work, team, project experience will include:

- ⊖ Understanding of IEC-61850 communication protocol for substation protection strongly preferred.
- ⊖ Experience writing scripts, macros, or code to develop tools to automate study processes.
- ⊖ Firm understanding of AC/DC fundamentals, and three-phase power systems.



- Ø In-depth knowledge and understanding of substation components and their functions.
- Ø In-depth understanding of the system protection principles and practices for transmission lines, distribution feeders, and major substation equipment.
- Ø Working knowledge of electric utilities' substation and transmission line one-line diagrams, and relay functional drawings.
- Ø Ability to work proficiently with Microsoft, OSI soft PI software, and Facilities Management applications.

Will have had project work or past experiences demonstrating:

- Ø Strong time management skills to independently plan and organize work assignments.
- Ø Ability to prioritize work and participate as a team member on multiple projects at one time, working in a fast paced and competitive environment associated with FERC Order 1000.
- Ø Strong abstract thinking and problem-solving capabilities.
- Ø Capabilities dealing with and executing under ambiguity.
- Ø Strong analytical, project management, communication, and interpersonal skills.
- Ø Excellence in self-education, research, and quickly adopting new skills and knowledge.

Education Requirements - Bachelor's Degree in Engineering or Computer Science w Power Systems focus

A current valid US Professional Engineer ("PE") license is preferred - but not required.

Four (4) Year Engineering Degree credential requirements from an:

- Ø ABET accredited engineering program in the US based on the year that the engineering program was accredited by ABET, or
- Ø An institution outside of the US accredited through the country's own engineering accrediting body under the Washington Accord on or after full signatory status was achieved, or
- Ø Non-ABET accredited program with a postgraduate 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
- Ø 4-year degree in Physics, Chemistry, Math or Engineering Technology with 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 ABET accredited, and/or
- Ø Holds or has previously held a valid U.S. Professional Engineer license.

Military service members and veterans with ranks from E3-E5, W1-W2, or O1-O3, E5-E9, W1-CW5, or O3-O6 plus appropriate equivalent combination of education and 3+ or 5+ years of experience are encouraged to apply.

Women, Veterans, Minorities and legal immigrants pursuing higher education in the US are encouraged to apply.

H1B Sponsorship may be available for Ph.D. candidates in Power Systems Engineering.

PREP Intl and our client are equal opportunity employers committed to a diverse workforce.

Send a resume with letter expressing interest and desired compensation to: