
Senior Engineer

Responsibilities

Client projects

- Communicate protection solutions to potential clients
- Assess and estimate client requests for services
- Provide written proposals to clients
- Specify protection solutions for projects
- Design one-line, three-line, and DC schematics for protection systems
- Review protection schematics
- Represent clients as the technical protection resource for their project
- Model steady-state power systems
- Perform steady-state fault studies
- Determine threshold and configuration settings for microprocessor based relays (multiple manufacturers)
- Document setting calculations and relay configuration

Internal projects

- Develop tools to use on client projects and for sale to clients and other consultants
- Provide peer review for external documentation

Project types covering 4 kV to 500 kV applications

- Transmission Line Protection
- Generator Protection
- Substation Protection
- Generator Interconnections
- Protection Project Feasibility
- Relay Operation Monitoring and Reporting
- Technical Protection Consultation
- System Coordination
- Industrial Plant Coordination
- Utility Standards Development

Requirements

- B.S. in Electrical Engineering or equivalent experience
- 10 or more years experience in the power system protection industry
- Ability to obtain a professional engineering license in multiple states
- Experience using the ASPEN Oneliner program
- Strong computer skills
- Ability to communicate well with people
- Excellent writing skills
- Ability to travel to client's site and industry conferences
- Non-Smoker

Recommended

- Professional engineering license
- Experience with MathCAD, MS Excel, MS Word, AutoCAD, SEL relays, Electro-mechanical Relays
- Experience with system analysis using transient modeling and studies

RAI does not employ individuals who smoke. The RAI no-smoking policy is to protect the health of all RAI employees, to maintain the best health insurance benefits, and to minimize loss of productivity due to smoking-related illness. RAI maintains a smoke-free workplace. A non-smoker is an individual who has not smoked for at least six months prior to accepting employment at RAI.