



**NOW HIRING
CAREERS AT AKA**

SENIOR ELECTRICAL ENGINEER

Employment: Full Time | Reports To: Chief Operating Officer | Location: PEI / Ontario

ABOUT THE ROLE

As a senior technical leader at AKA Energy Systems, the Senior Electrical Engineer – Utility Interconnection shall lead the planning, design, and execution of high-voltage utility interconnections for large-scale energy infrastructure projects. Drawing on extensive utility-side experience, the Senior Electrical Engineer shall manage connection applications, system studies, and technical coordination with transmission utilities and / or the Independent Electricity System Operators (IESOs), ensuring that projects achieve grid connection safely, on schedule, and in full compliance with utility and market requirements.

As the senior engineer responsible for the utility interface, the Senior Electrical Engineer shall serve as the primary technical point of contact with transmission and distribution utilities and / or the IESO. The scope of responsibilities and daily activities shall focus on interconnection leadership, engineering and design, and markets and compliance, as follows:

PRIMARY RESPONSIBILITIES INTERCONNECTION LEADERSHIP

- Lead the utility interconnection process for transmission-connected projects, including connection applications, System Impact Assessments (SIA), Customer Impact Assessments (CIA), and Connection Cost Estimate Agreements (CCEA).
- Serve as the primary technical interface with transmission and distribution utilities – and / or IESOs on connection assessments, planning studies, and market registration.
- Manage interconnection schedules, milestones, and deliverables against project development timelines and commercial commitments.
- Evaluate contestable versus non-contestable connection scope and advise on self-build versus utility-build options.

ENGINEERING & DESIGN

- Direct high-voltage substation and interconnection design, including single-line diagrams, protection and control philosophies, metering, and revenue-grade telemetry.
- Review and manage power system studies: load flow, short circuit, transient stability, protection coordination, arc flash, and reactive power / VAR support assessments.
- Define technical requirements for connection assets, including transformers, switchgear, breakers, protection relays,

SCADA, and telecommunications, to utility and IESO standards.

- Review vendor and EPC documentation for HV substations to ensure compliance with utility connection requirements.

MARKETS & COMPLIANCE

- Support IESOs or similar market participation strategy, including facility registration, capacity auctions, ancillary services, and long-term procurement – e.g., LT RFP – technical compliance.
- Ensure designs and submissions comply with the Market Rules, the Transmission System Code, and the Distribution System Code.
- Collaborate with multidisciplinary engineering, development, and commercial teams, and represent the company in technical meetings with utilities, regulators, and customers.

KEY REQUIREMENTS EDUCATION & EXPERIENCE

- Bachelor's degree in electrical engineering; power systems specialization preferred.
- Professional Engineer (P.Eng.) designation, or similar, or eligibility for licensure.
- Minimum of ten years of experience in electrical power engineering, with significant experience on the utility side – transmission utility, system operator, or utility consulting.

- Demonstrated track record delivering transmission-level interconnection projects – 115 kV and above – from application through energization.
- Direct working knowledge of connection processes and connection assessment and market registration requirements.

KNOWLEDGE AND SKILLS

- Advanced proficiency with power system analysis tools – PSS/E, PSCAD, CYME, ETAP, or equivalent.
- In-depth knowledge of HV substation design, protection and control, and SCADA systems.
- In-depth knowledge of IESO Market Rules, the Transmission System Code, grid codes, and utility planning criteria; knowledge of applicable CSA, IEEE, IEC, and NERC standards an asset.
- Strong commercial awareness of how interconnection decisions affect project cost, schedule, and revenue.
- Superior communication and technical writing skills, including regulatory and utility correspondence.
- Strong analytical and problem-solving skills with sound engineering judgment, and the ability to lead technical workstreams independently and within multidisciplinary teams.



HEADQUARTERS
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LOCATIONS
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North America – Houston, New Orleans
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