Title: Senior Electrical Engineer – Battery Energy Storage & Substation Scope
Accountable to: Director, Systems Engineering
Location: Bangalore, India
Seniority: Senior

Introduction

Edify Engineering solution is a Bangalore based advanced engineering and consulting organization that specializes in Strategic consulting services, Turnkey solutions, Manufacturing and Supply chain management services with a team of 20+ members from various technical & non-technical disciplines. Backed by a combined experience of over 120+ years, we deliver unique& disruptive solutions catering to customer needs and are driven by enthusiasm and endurance to achieve this goal.

Our client, Energy Vault is the creator of renewable energy storage products that are transforming the world's approach to utility-scale energy storage for grid resiliency. Our client's comprehensive offerings include our proprietary gravity, battery, hybrid/green hydrogen energy storage solutions and our technology-agnostic software suite that orchestrates and integrates multiple energy asset types (storage & generation) while optimizing dispatch, costs, revenues, and overall asset performance.

About the role

We seek a highly skilled Senior Electrical Engineer to join our Engineering Support Center in India. This role is critical in supporting our EPC (Engineering, Procurement, and Construction) projects for Battery Energy Storage Systems (BESS). The engineer will be responsible for reviewing electrical design packages for the entire plant including - substation design and balance of plant.

The engineer will collaborate with project stakeholders, including developers, EPC contractors, and utilities, ensuring compliance with industry standards and best practices. The candidate must have expertise in power system analysis, interconnection, relay protection coordination, and substation design to ensure seamless grid integration.

What you will do

- Conduct technical evaluations of EPC contractor design packages, ensuring alignment with project requirements and industry standards.

- Review and assess electrical designs for BESS projects, covering MV/HV substation design, switchgear, transformers, protection systems, grounding and balance of plant.
- Review electrical studies including but not limited to load flow analysis, short circuit study, arc flash study, relay protection coordination, ground fault protection study, lighting protection study, etc.
- Review and approve technical documents, schematics, and design drawings.

Qualification Requirements:

Education & Certification

- Bachelor's degree in electrical engineering (Master's preferred).

Experience

- 8+ years in electrical design for substation, power plant or energy storage.
- Hands-on experience with BESS, MV/HV substations or power plants.
- Expertise in protection schemes, electrical studies, and utility coordination.
- Strong knowledge of grid interconnection studies and protection relay coordination.

Technical Skills

- Experience with HV/MV equipment, transformers, switchgear, and relays.
- Proficiency electrical system modeling tools (ETAP or similar).
- Ability to interpret schematics, wiring diagrams, and single-line drawings.
- Understanding of protection settings, SCADA integration, and control systems.
- Familiarity with electrical standards:
    - US: NFPA 70, NESC, IEEE, ANSI, NERC.
    - Australia: AS 2067, AS/NZS 3000, AEMO grid codes.

Project & Stakeholder Management

- Work with utilities, EPCs, and regulators to ensure design compliance.
- Manage technical evaluations, vendor coordination, and procurement reviews.
- Strong problem-solving skills focused on safety, reliability, and efficiency.

Desirable Qualifications & Experience

- Knowledge of microgrids and renewable energy integration.
- Familiarity with cybersecurity in substations and SCADA networks.

Soft Skills & Leadership

- Strong communication skills and ability to present findings.
- Ability to work independently and make data-driven decisions.