

ELECTRICAL INFRASTRUCTURE ENGINEER

As an Electrical Infrastructure Engineer at QED Naval Ltd, you will be responsible for the planning, design, implementation, and maintenance of electrical systems and tidal field layouts and transmission equipment that forms the backbone of critical infrastructure projects. You will have to manage cable, connector and infrastructure specifications and contracts through to cable route planning and installation methods along with stabilisation measures. You will collaborate with cross-functional teams to ensure the reliability, efficiency, and safety of electrical systems.

RESPONSIBILITIES

1. Infrastructure Planning and Design:

- Lead the planning and design of electrical infrastructure for various projects, ensuring compliance with industry standards and regulations.
- Develop detailed electrical schematics, diagrams, and layout plans.
- Need to be able to deal with cable routing and voltages and connectors.

2. Power Distribution Systems:

- Design and optimize power distribution systems for efficiency and reliability.
- Conduct load flow and short circuit analysis to ensure optimal performance.

3. Substation Design:

- Design electrical substations, specifying equipment, transformers, and protection systems.
- Collaborate with civil and structural engineers to ensure the integrity of substation structures.

4. Renewable Energy Integration:

- Integrate renewable energy sources into existing electrical infrastructure.
- Design and implement systems for efficient energy storage and distribution.

5. Project Management:

- Manage electrical infrastructure projects from conception to completion, ensuring timely and within-budget delivery.
- Coordinate with project managers, contractors, and other stakeholders.

6. Maintenance & Upgrades:

- Develop and implement maintenance schedules for electrical systems.
- Identify opportunities for system upgrades and improvements.

7. Compliance & Safety:

- Ensure all electrical infrastructure projects comply with relevant codes, standards, and safety regulations.
- Conduct safety assessments and implement corrective measures as needed.

8. Documentation:

- Create comprehensive documentation, including technical specifications, manuals, and reports.
- Maintain accurate records of electrical infrastructure designs and modifications.

QUALIFICATIONS

- Bachelor's or Master's degree in Engineering or a related field.
- Proven experience in electrical infrastructure design, implementation, and maintenance.
- Proficiency in electrical design software and tools.
- Strong analytical and problem-solving skills.
- Excellent communication and collaboration skills.
- Knowledge of industry standards and regulations.

