

Job Description: Electrical Design Engineer

Overview:

We are seeking an experienced Electrical Design Engineer with comprehensive expertise in AutoCAD and a proven track record in High Voltage Design, Power System Studies, Earthing Studies, Electrical Audits, Engineering Report Writing, and proficiency in MS Excel. The ideal candidate will play a pivotal role in designing, analyzing, and optimizing electrical systems while ensuring compliance with industry standards and regulations.

Responsibilities:

- **High Voltage Design:** Develop and execute high voltage electrical designs, including system layouts, schematics, and specifications, ensuring efficiency, safety, and reliability.
- **Power System Studies:** Conduct comprehensive power system studies, including load flow analysis, short-circuit analysis, and protection coordination studies to optimize system performance.
- **Earthing Studies:** Perform earthing system designs and studies to guarantee proper grounding and safety measures in electrical installations.
- **Electrical Audits:** Conduct thorough electrical audits, assess existing systems, identify inefficiencies, and propose recommendations for improvement or enhancement.
- **Engineering Report Writing:** Prepare detailed technical reports documenting design methodologies, analysis findings, and recommendations in a clear and concise manner.
- **AutoCAD Proficiency:** Utilize AutoCAD software to create and modify electrical designs, layouts, and drawings with precision and adherence to standards.
- **MS Excel Utilization:** Leverage MS Excel for data analysis, calculations, and presentation of technical information as needed for design validation and reporting purposes.
- **Compliance and Standards:** Ensure designs and studies comply with relevant industry standards, codes, and regulatory requirements.
- **Collaboration and Support:** Collaborate with cross-functional teams, provide technical support, and contribute expertise to projects at various stages of development.

Qualifications:

- Bachelor's degree in Electrical Engineering or related field.
- Proven experience (0-2 years) in Electrical Design, specifically in High Voltage systems, Power System Studies, Earthing Studies, and Electrical Audits.
- Proficiency in AutoCAD for electrical design and drafting.
- Strong analytical skills with the ability to conduct and interpret power system studies.
- Excellent written and verbal communication skills for technical report writing and effective collaboration.
- Expertise in MS Excel for data analysis, calculations, and reporting.
- Knowledge of industry standards and regulations related to electrical design and safety.