



Electrical Designer

Job Scope

The Electrical Designer creates electrical designs and drawings for various projects and systems. This role involves working closely with engineers, architects, and other stakeholders to develop electrical plans, schematics, and specifications. In addition, the Electrical Designer utilizes industry standards and design software to ensure accuracy, compliance with regulations, and optimal functionality of electrical systems.

Responsibilities

- Collaborate with project teams to understand project requirements and objectives.
Design electrical systems for buildings, infrastructure, or industrial projects.
Develop electrical plans, schematics, and specifications based on project specifications and applicable codes and standards.
Select appropriate electrical components, equipment, and materials for the project.
Ensure electrical designs are efficient, reliable, and comply with safety regulations and industry best practices.
Create detailed electrical drawings, including plans, wiring diagrams, panel layouts, and equipment specifications.
Use computer-aided design (CAD) software and other tools to produce accurate and comprehensive electrical drawings.
Update and revise electrical drawings as needed during the design and construction phases.
Prepare and maintain documentation, such as bills of materials, equipment schedules, and technical specifications.
Collaborate with engineers, architects, and other professionals to integrate electrical designs into project plans.
Coordinate with project teams to ensure alignment between electrical designs and other disciplines (e.g., mechanical, structural).
Participate in project meetings and provide technical expertise and support as needed.
Communicate and coordinate with vendors, contractors, and suppliers to obtain necessary information and materials.
Ensure electrical designs and installations comply with relevant electrical codes, regulations, and standards.
Review and evaluate contractor submittals and shop drawings for compliance with the design intent.
Conduct site visits and inspections to verify adherence to electrical design specifications.
Assist in resolving design-related issues and troubleshooting electrical systems during construction and operation.
Provide technical support to project teams, contractors, and clients regarding electrical design and installation.

As an EEO/Affirmative Action Employer all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, veteran status.



Respond to requests for information (RFIs) and provide clarifications related to electrical designs.

Create and maintain technical documentation, including design calculations, guidelines, and standards.

Stay updated on industry trends, new technologies, and advancements in electrical design practices.

Requirements

- Proven experience (typically 3-5 years) in electrical design, preferably in building construction or infrastructure projects. Bachelor's degree in Electrical Engineering is preferred.
Proficiency in using computer-aided design (CAD) software and electrical design tools.
Strong knowledge of electrical codes, regulations, and standards (e.g., NEC, IEC).
Familiarity with electrical systems, equipment, and components used in building construction or industrial projects.
Ability to interpret and create electrical drawings, schematics, and specifications.
Attention to detail and accuracy in creating and reviewing electrical designs and documentation.
Strong analytical and problem-solving skills to address design challenges and ensure optimal system performance.
Effective communication skills to collaborate with multidisciplinary teams and stakeholders.
Familiarity with sustainable and energy-efficient design practices is desirable.
Professional certifications (e.g., Certified Electrical Designer) are a plus.