



Example of Electrical Design Engineer Job Description

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Our company is growing rapidly and is looking to fill the role of electrical design engineer. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

Responsibilities for electrical design engineer

- Define project scope and provide technical support for information requests prior to, and during construction phases
- Work with commissioning teams to properly test and validate installation, operation, and performance of electrical systems
- Travel to sites for site review and work with onsite field engineers, provide engineering evaluations, electrical systems audits, and startup as needed
- Attend project design team meetings
- Perform electrical systems design and calculations, electrical sizing and selection bulk material take-offs
- Develop electrical equipment specifications/datasheets, electrical system drawings (single line diagram, control schematics, etc) and electrical layout drawings (lighting layouts)
- Perform technical bid evaluation for electrical equipment
- Review vendor equipment design/data
- Assists in creating design specifications considering application, cost, weight, performance, product life, manufacture, assembly and service
- Learns team roles and how to contribute towards team goals

Qualifications for electrical design engineer

- Creates electrical long leads and Cost Schedule Impact Logs (CSILs.)
- Submits Engineering Change Proposals (ECPs, RFWs)

- Broad basis of knowledge for electrical facilities design (power distribution, controls, NEC, IT/Comm, cabling, Air Conditions Systems)
- Comfort and ability to use all types of electronic test equipment
- Knowledge about codes that pertain to hazardous locations, motors, cables