



BIG STATE ELECTRIC, LTD.

SAN ANTONIO / AUSTIN / HOUSTON / CORPUS CHRISTI / DFW

8923 AERO STREET • SAN ANTONIO, TX 78217

PH: 210.735.1051 • FAX: 210.735.1671

TECL#19035 • FIRE# ACR-1750578 • TOPS# B07297401

POSITION: VDC (Virtual Design & Construction) Electrician

Big State Electric, Ltd. • Full-time • San Antonio, Texas, United States (On-site)

Job description

Electrical Virtual Design & Construction Electrician

Company Description

Established in 1966, Big State Electric, Ltd. is a respected name in the construction industry, known for delivering top-quality electrical installations built on expert workmanship and reliability. We focus on providing unparalleled service, safety, and professionalism. Leveraging advanced technologies such as Safety Systems, BIM, and AutoCAD, we offer comprehensive in-house services including engineering, preconstruction, fire alarm systems, automation, and more. With extensive experience in diverse commercial electrical applications such as hospitals, educational facilities, and industrial environments, we are committed to excellence and innovation in every project. Big State Electric upholds a legacy of strong values and ethical business practices while driving forward with contemporary innovations.

Role Description

The VDC Electrician is responsible for developing, coordinating, and maintaining virtual electrical construction models for commercial construction projects. This role combines hands-on electrical expertise with Building Information Modeling (BIM) technology to support the planning, coordination, and successful installation of electrical systems. The ideal candidate possesses a strong electrical background, holds a Journeyman or Master Electrician license, and has experience or interest in utilizing software such as Revit and Navisworks to create accurate, constructible designs.

Essential Duties and Responsibilities

- Develop, modify, and manage 3D virtual models of electrical systems for new and existing commercial construction projects.
- Create detailed electrical layouts, conduit routing, equipment placement, and installation drawings using Revit and Navisworks.
- Collaborate with project managers, engineers, estimators, field supervisors, and other trade partners to ensure project requirements are accurately reflected in virtual models.



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- Review project specifications, blueprints, contract documents, and design drawings to ensure constructability and compliance.
- Perform clash detection and coordination with other building systems to identify and resolve conflicts before installation.
- Support prefabrication efforts by developing accurate and coordinated shop drawings and installation documents.
- Ensure all designs comply with applicable electrical codes, industry standards, and project specifications.
- Provide technical support and guidance to field personnel during project execution and installation phases.
- Participate in coordination meetings and communicate design updates to project stakeholders.
- Maintain accurate records of model revisions, design changes, and project documentation.
- Assist with continuous improvement of VDC processes, standards, and workflows.

Qualifications

- Journeyman Electrician or Master Electrician License preferred.
- Strong knowledge of commercial electrical systems, installation methods, and National Electrical Code (NEC) requirements.
- Basic computer proficiency and willingness to learn advanced VDC/BIM technologies.
- Ability to read and interpret construction drawings, specifications, and technical documents.
- Strong problem-solving, organizational, and communication skills.
- Ability to work collaboratively in a team-oriented environment.
- Experience using Revit, Navisworks, or other BIM/VDC software.
- Previous experience in commercial electrical construction.
- Familiarity with clash detection, BIM coordination, and model-based construction workflows.
- Experience supporting prefabrication and field installation processes.
- Understanding of construction sequencing and project delivery methods.