



## Electrical Design Engineer

With a strong foundation in excellence, a focus on strategic growth, and engaged in an entrepreneurial mindset, Chicago Switchboard has grown from its family roots in 1936, designing stage lighting, to growth oriented, stable, innovative, manufacturer of customer power distribution equipment.

Currently, Chicago Switchboard includes its two facilities in the Chicago suburbs, Park Detroit in Detroit, MI, Texas-based IER-Electrical OEM, and CES Industrial in Loveland, CO. With the client and development as our focus, we invite skilled professionals who can grow with us and have the drive and desire to join our growing team.

### Position Summary:

This position is a member of a growing team developing custom solutions that are used in a multitude of industries. Each project takes an idea from concept to design, to production. Responsibilities include creating, updating, and releasing electrical drawing packages for assigned projects in compliance with customer and industry specifications.

These positions can reside in Elmhurst, IL, Detroit, MI, or Humble, TX.

### In this function you will:

- Develop electrical approval drawings inclusive of single lines, three lines, control schematics and bill of materials for assigned projects.
- Update approval packages as required based on design review and customer input.
- Prepare and release electrical manufacturing drawings inclusive of wiring diagrams, interconnection diagrams and bill of materials to production and purchasing.
- Ensure drawings are released and parts are ordered in time to support the production build schedule.
- Address manufacturing component mounting assembly and wiring activities as needed.
- Provide technical support to sales and company distributors in support of the company's quality customer service effort.
- Align and actively contribute to the company's quality improvement initiatives.
- Stay abreast of technical product developments through literature review and industry developments.
- Perform other duties and tasks as assigned by management to ensure company goals and objectives are met.

Chicago Switchboard does not discriminate in employment based on race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, or other non-merit factor.



## Competencies:

- Design single phase, three phase and DC protection and control circuits.
- Accurately select protection, metering, and control components such as circuit breakers and protection devices based on the required application.
- Understanding of the requirements for proper breaker selection and cable sizing based on application.
- Application of power distribution and/or control schemes for electrical equipment and systems such as switchgear, switchboards, panelboards, electrical control panels, and power distribution circuits.
- Create electrical schematics, control wiring plans, interconnection diagrams, and cable schedules from control schematics and power feed diagrams.
- Understanding of relay logic and PLCs a plus.
- Understanding and application of NEC, ANSI, and UL standards to electrical design.
- Familiarity with utility specifications such as EUSERC, COMED, WE-Energies and PSE&G a plus.

## Skills:

- High-level of competency in AutoCAD (knowledge of AutoCAD electrical or similar software a plus).
- Well-versed in MS Office suite applications.
- Experience with Medium Voltage electrical design; preferably in the power distribution industry.
- Manage multiple jobs and competing requirements by confidently making critical decisions in a fast-paced environment.
- Strong verbal and written communication to clearly communicate with internal and external customers.
- Ability to use reasoning and logic to develop creative and practical solutions and apply past proven solutions to solve new problems.
- Work independently with minimal supervision and collaboratively within peer, production, and sales engineering teams.
- Read technical drawings, project specifications, and clearly communicate technical information to others.

## Education Qualifications

- Bachelor's degree in Electrical Engineering from an accredited institution with three to five years' experience in electrical manufacturing / electrical construction, OR
- Two years associate degree in electrical engineering technology with five to seven years' experience electrical manufacturing / electrical construction.