

POSITION DESCRIPTION

Electrical Designer

The logo for KFI ENGINEERS is centered in the lower right quadrant of the page. It consists of a large white circle that is partially cut off on the right side. Inside the circle, the letters "KFI" are written in a large, bold, white, sans-serif font. Below "KFI", the word "ENGINEERS" is written in a smaller, bold, white, sans-serif font.

KFI
ENGINEERS

POSITION SPECIFICATION

Position	Electrical Designer
Organization	KFI Engineers (KFI)
Location	Fargo, ND
Reporting Relationship	P
Website	http://www.kfiengineers.com/

COMPANY BACKGROUND

KFI is a recognized industry leader in process and facility infrastructure design and performance. We serve clients in the United States, Canada and Central America and have capabilities not commonly found in traditional engineering firms, including our commissioning work and our ability to drive projects of all sizes.

KFI was established in 1996 to make a difference in the way infrastructure and processing projects are delivered. We employ a highly trained staff of engineers, technicians and managers who execute projects with the same care and creativity we would expect if we were the client. We are located in Minnesota, Wisconsin, Iowa, and North Dakota with a team of 100 professionals.

POSITION OVERVIEW

The Electrical Designer - Commercial plays a key role in the successful execution of projects, focusing primarily on the production of AutoCAD drawings and/or 3D modeling. Reporting to a Senior Project Manager, the Electrical Designer is responsible for producing quality construction documents and coordinating design work with other engineering disciplines. The successful candidate will also be expected to work within a team environment and collaborate with other project team members.

KEY RESPONSIBILITIES

- Lighting layout and design (interior, exterior, landscape, specialty, egress/exit and lighting controls)
- Utilize and create spreadsheets for electrical calculations
- Gather electrical data from clients, architects and other disciplines
Coordinate work with other external stakeholders (civil and structural engineers, architects, food service companies, etc.)
- Estimate building electrical loads
- Size rooms (electrical, telecommunications equipment rooms and closets)
- Size motor feeders and starters
- Perform voltage drop calculations, short circuit calculations

- Layout electrical equipment (panelboards, transformers, receptacles)
- Write construction observations, reports, etc.
- Edit master schedules (panelboards, motors, lighting fixtures, lighting controls)
- Effectively estimate hours and scope of work, thereby contributing to the creation of budgets and project schedules

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

- Five plus (5+) years design experience in a consulting and/or construction capacity.
- Basic understanding of Architectural, Electrical, Civil, and Structural Engineering construction practices.
- Working knowledge of Codes (e.g., NEC, NFPA, IBC, IFC, Energy Code, Life Safety Code, etc.).
- Application of Electrical Engineering Principles (e.g., Ohms' law, selective coordination, grounding, harmonics, etc.).
- Knowledge of arc fault analysis (SKM Power Tool and Windows).
- Experience in the design of Low Voltage Systems (security, nurse call, telephone/data, paging, CCTV, MATV, other A/V) is preferred but not required.
- Also desired, but not essential, is design experience with medium voltage systems.
- Finally, knowledge of ISO 9001 quality control procedures for documents control purposes would be valuable.

KEY PERFORMANCE CHARACTERISTICS

Understanding the Business

- Knows the business and the mission-critical technical and functional skills needed to do the job; understands the "KFI way" – our Mission, Vision and processes. Learns new methods and technologies easily.

Getting Organized

- Is well organized, resourceful, and planful; effective and efficient at marshalling multiple resources to get things done; is able to get things done with less and in less time; can work on multiple tasks at once; foresees and plans around obstacles.

Focusing on Action and Outcomes

- Attacks everything with drive and energy with an eye on the bottom line; not afraid to initiate action before all the facts are known; drives to finish everything he/she starts.

Focusing on the Customer

- Identifies and anticipates customer requirements (both internal and external), expectations, and needs. Makes it easy for customers to do business with us. Ensures that customer issues are resolved.

Communicating Effectively

- Writes and presents effectively; adjusts to fit the audience and the message; strongly gets a message across. Exhibits above-average active listening skills.

Builds Relationships

- Treats people with respect; relates well to people regardless of their organization level, personality, or background. Encourages others to express their views, even contrary ones.

Influencing Others

- Ensures that proposals or arguments are supported by strong logic and a compelling business case, addressing all relevant factors. Identifies the agendas, concerns, and motivations of others.

EDUCATION

AAS Degree/Diploma in Design/Drafting is required. We will also consider an electrical engineer who has drawing skills.

KFI ENGINEERS CONTACT

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