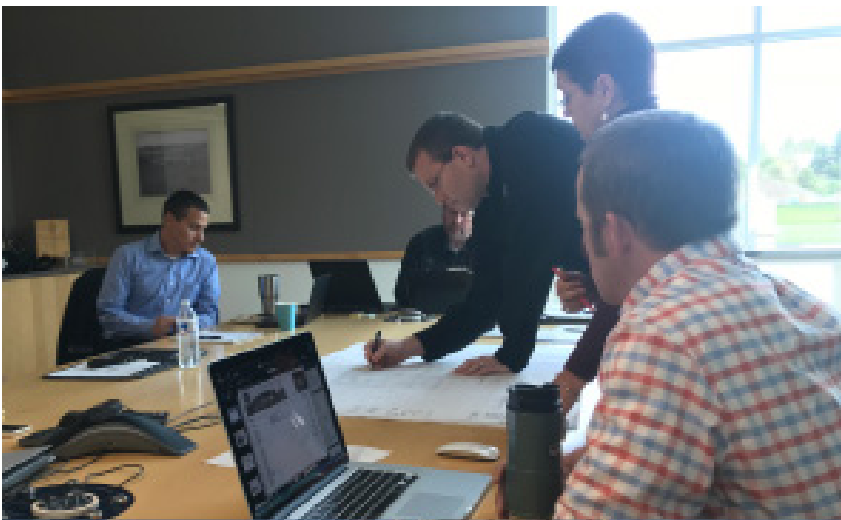


# POSITION DESCRIPTION

## Chemical Engineer - Industrial

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2021



## POSITION SPECIFICATION

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<b>Position</b>	Chemical Engineer
<b>Organization</b>	KFI Engineers (KFI)
<b>Location</b>	St. Paul, MN
<b>Reporting Relationship</b>	Senior Project Manager, Industrial Group
<b>Website</b>	<a href="http://www.kfiengineers.com/">http://www.kfiengineers.com/</a>

## COMPANY BACKGROUND

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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, Arizona, Ohio, and North Dakota with a team of over 160 professionals.

## POSITION OVERVIEW

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At KFI, the Chemical Engineer plays a key role in the successful execution of projects. Reporting to the Senior Project Manager, Industry and Infrastructure, this individual will provide technical and engineering excellence, as well as successful delivery of work to our customers. The Chemical Engineer is responsible for a high level of customer satisfaction by ensuring expectations are clearly communicated and managed – both externally and internally. The successful candidate will also contribute to a dynamic team environment by being proactive, clear and frequent communication, and modeling a highly collaborative working environment. This person will also actively support the business development process, through the writing of proposals and meeting with prospective and current customers.

## TYPICAL RESPONSIBILITIES

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Specific responsibilities will include, but not be limited to, the following:

- Applies principles from the science of chemistry (Inorganic, Organic, Physical and associated analytical labs) to engineering designs and problems.
- Predicts process operating conditions using computer simulation methods.
- Chooses chemical containment and reaction vessels based on materials' interactions.
- Selects and designs chemical process equipment.
- Specifies manufacturing techniques, and designs processes for the treatment of effluent chemicals.
- Develops PFD's and material/energy balances.
- Generates P&ID's and reviews process piping designs.
- Provides input to plant layout development, with an understanding of key equipment relationships and maintenance access requirements.
- Field experience related to capital project construction and process plant start-up.
- Assures that assigned work complies with KFI quality requirements.

- May serve as project manager for complete multi-discipline projects, when assigned.
- Provides work direction to other team members, including subcontractors, as assigned.
- Approves final equipment selections and drawing submittals.
- Provides technical and engineering support to other departments/disciplines.

## **KNOWLEDGE, SKILLS AND ABILITIES REQUIRED**

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The successful candidate will have a pragmatic and applied approach, while at the same time bringing a creative examination of customer needs and solutions.

The successful candidate will have demonstrated a strong proficiency in process engineering within the bio-chemical or agri-business industries. Ideally, the person filling this position will have strong experience in chemical processing projects and facilities. This person will have strong interpersonal skills to enable effective interaction with Designers, Engineers and Project Managers. This person will possess strong communication skills, and influencing skills, and has demonstrated the maturity and self-confidence to work with colleagues and customers. The level of seasoning we are looking for likely comes with a minimum of 8-10 years of experience following graduation.

The successful candidate will be naturally collaborative, and possess the ability to assimilate a range of ideas, programs or alternatives into a set of recommendations. This person will be self-directed, but thrive in an environment where consultation leads to superior outcomes.

Additional qualifications the successful candidate will possess include:

- Effective meeting management skills.
- Strong attention to detail.
- Adaptable and agile, responsive to quick changes in direction.

## **LEADERSHIP CHARACTERISTICS**

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### **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 and resourceful; effective and efficient at marshalling multiple resources to get things done; lays out tasks in sufficient detail to mark the trail; is able to get things done with less and in less time; can work on multiple tasks at once without losing track; 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, expectations, and needs. Creates systems and processes that make it easy for customers to do business with the company. 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.

**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.

**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 those contrary to current thinking.

**EDUCATION**

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Bachelors' degree in Chemical Engineering is required. Professional Engineering Registration or willingness to pursue this designation is also desired.

**COMPENSATION**

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Recognizing the importance of this position to KFI, a competitive wage and benefits package will be offered.

**KFI ENGINEERS CONTACT**

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