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## Job Description

# Fire Protection Designer-ENG00170

## Description

**Summary:** Applies engineering principles to design, modify or develop facilities, testing, machines, equipment or processes used in processing or manufacturing products by performing the following duties.

**Essential Duties and Responsibilities:** Include the following. Other duties

may be assigned.

Accurately and efficiently produces various fire and gas designs, which conform to applicable codes and specifications.

Prepares or directs preparation and modification of reports, specifications, plans, construction schedules and designs for project.

Ensures that construction packages meet the expectations of the client, including other client representatives such as FCO and construction personnel.

Provide design work for packages issued by Fire Protection Engineering Department.

Proficiently operates various AutoCAD systems. Uses computer-assisted engineering and design software and equipment to perform design tasks. .

Perform the development of the design package. Items developed include but, are not limited to: Detailed Scope of Work, estimates, major component lay out and wiring diagrams, Cause and Effects matrix, fabrication packages, material requisitions and safe out procedures

Work with the Fire Protection Engineer update project progress tracking information for the monthly status report.

Maintain a Project issue resolution log for each project

Work with the Fire Protection Engineer to develop the conceptual work scope, and prepare technical drawings and documents of the work package through IFC.

Coordinate as-built activities including record keeping.

Interprets and applies codes, procedures, standards and specifications to accurately and efficiently produce quality designs packages.

Interprets complex vendor data or drawings for conformance with project requirements and initiates resolution of any problems.

Accurately develops material takeoffs, engineering man hour and total installed cost estimates.

Consistently demonstrates example skills in structuring assigned activities, creativity, teamwork, handling a client's changing needs, communications, operational efficiencies, decision making, and analyzing and solving problems.

Inspects equipment for conformance with design specifications. Analyzes product or equipment specifications and performance requirements to determine designs that can be produced by existing manufacturing or processing facilities and methods.

Analyzes engineering proposals, process requirements and related technical

data pertaining to industrial machinery and equipment design.

Determines feasibility of designing new plant equipment or modifying existing facilities considering costs, available space, time limitations, company planning and other technical and economic factors.

Provides information to those in field construction. Provides accurate technical advice and training to others. Provides technical information concerning manufacturing or processing techniques, materials, properties and process advantages and limitations which affect long range plant and product engineering planning.

Studies engineering and technical publications to keep abreast of technical changes and developments in industry.

**Competency:**

To perform the job successfully, an individual should demonstrate the following competencies:

**Analytical**

Synthesizes complex or diverse information;  
Collects and researches data;  
Uses intuition and experience to complement data;  
Designs workflows and procedures.

**Design**

Generates creative solutions;  
Translates concepts and information into images;  
Uses feedback to modify designs;  
Applies design principles;  
Demonstrates attention to detail.

**Problem Solving**

Identifies and resolves problems in a timely manner;  
Gathers and analyzes information skillfully;  
Develops alternative solutions;  
Works well in group problem solving situations;  
Uses reason even when dealing with emotional topics.

**Technical Skills**

Assesses own strengths and weaknesses;  
Pursues training and development opportunities;  
Strives to continuously build knowledge and skills;  
Shares expertise with others.

**Interpersonal**

Focuses on solving conflict, not blaming;  
Maintains confidentiality;  
Listens to others without interrupting;  
Keeps emotions under control;  
Remains open to others' ideas and tries new things.

**Oral Communication**

Speaks clearly and persuasively in positive or negative situations;

Listens and gets clarification;  
Responds well to questions;  
Demonstrates group presentation skills;  
Participates in meetings.

### **Team Work**

Balances team and individual responsibilities;  
Exhibits objectivity and openness to others' views;  
Gives and welcomes feedback;  
Contributes to building a positive team spirit;  
Puts success of team above own interests;  
Able to build moral and group commitments to goals and objectives;  
Supports others' efforts to succeed;  
Recognizes accomplishments of other team members.

### **Written Communication**

Writes clearly and informatively;  
Edits work for spelling and grammar;  
Varies writing style to meet needs;  
Presents numerical data effectively;  
Able to read and interpret written information.

### **Strategic Thinking**

Develops strategies to achieve long-term success.

### **Safety and Security**

Observes safety and security procedures.

## **Qualifications**

### **Qualifications:**

To perform this job successfully, an individual must be able to satisfactorily perform each essential duty. The requirements listed below are representative of the knowledge, skill and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

### **Education/Experience:**

High School Diploma or GED equivalent required.

Must have a minimum six (6) years Fire & Gas design experience. Must have experience working with IBC, IFC and national fire codes.

Employee must be advanced with AutoCAD 12, AutoCAD 13 or AutoCAD 14.

Field experience is required within the Fire & Gas discipline. Microsoft Access Database experience required.

Experience with AESolutions, Det-Tronics and/or Pyrotronics Fire Alarm panels strongly desired.

**Responsibilities:** The individual must satisfactorily perform all essential duties, responsibilities and requirements listed earlier in the General Requirements section. In addition, the individual must possess the ability to work independently; provide project lead support on design oriented projects; provide skills to develop design drawings; provide QA/QC support determine material specification and selection. Works under the direction of engineers.

**Language Ability:**

Ability to read and interpret documents such as safety rules, operating and maintenance instructions and procedure manuals. Ability to write routine reports and correspondence. Ability to speak effectively before groups of managers, client or employees of organization.

**Math Ability:**

Ability to calculate figures and amounts such as proportions, percentages, area, circumference, and volume. Ability to apply concepts of basic algebra and geometry.

**Reasoning Ability:**

Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written oral, diagram or schedule form.

**Computer Skills:**

To perform this job successfully, an individual should have knowledge of MS Word word processing software; MS Excel software and current versions of AutoCAD design software.

Employee must be advanced with AutoCAD 12, AutoCAD 13 or AutoCAD 14.

Microsoft Access Database experience required.

Client Document Control systems experience in EDDI or SAP is preferred.

**Certificates and Licenses:**

No certifications required. NICET Certification in Fire Technology and Alaska State Fire Permit Level's are a plus.

**Supervisory Responsibilities:**

This position does not have any supervisory responsibilities, although the individual may provide work direction to Drafters and less senior Designers.

**Work Environment:**

The position requires a person that is able to travel and work in remote locations overnight or longer. The employee is occasionally exposed to work near mechanical parts; work in high, precarious places; toxic or caustic chemicals and adverse outdoor weather conditions. The employee is expected to abide by all required safety regulations, behaviors and conditions, as required at the local or remote work locations. The noise level in the work environment is usually High in the Process Areas and requires Hearing Protection.

**FLSA Status:** Non-Exempt/Hourly

**Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is frequently required to sit use hands and fingers, handle or feel, talk and hear. The employee must occasionally lift and/or move up to 10 pounds. Specific vision abilities required include close vision, color vision and ability to adjust focus. The employee is occasionally exposed to severe outside weather conditions and perhaps the risk of electrical shock. The noise level is usually quiet.

Some company locations and projects require the employee to travel to remote industrial facilities which will require the employee to fly aircraft in various sizes and visit production facilities where excessive noise, heat and cold temperatures will be experienced. The ability to climb ladders, stairs and traverse industrial platforms in the performance of duties will be required.

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**Job:** Engineering/Design

**Primary Location:** US-AK-Anchorage

**Other Locations:** US-MS-Gulfport

**Shift:** Day Job

**Organization:** Fire & Gas

**Closing Date (Period for Applying) - External:** Sep 13, 2018, 3:59:00 AM

