

**ALEJANDRO JIMENEZ, P.E., CFPS, CCPSC**  
**SR. STAFF CONSULTANT, FIRES & EXPLOSIONS**[aljimenez@engsys.com](mailto:aljimenez@engsys.com)

As a Staff Consultant with Engineering Systems Inc. (ESI) in the fire and explosion practice, Alejandro investigates fire and explosion incidents across the United States. Alejandro is a licensed professional engineer with over 10 years of experience in the areas of fire protection engineering, fire dynamics, and fire hazard and risk management. His expertise includes fire protection and alarm systems, life safety, fire dynamics, fire & explosion modeling, chemical process safety, process hazard analysis, dust hazard analysis and compliance with industry codes and standards.

He has experience performing fire & explosion risk assessments and safety, risk, and hazard evaluations for chemical processing facilities, including oil & gas processing, pipeline distribution, loading and offloading process, chemical and petrochemical, food manufacturing, and manufacturing facilities.

Prior to joining ESI, he worked as a process safety and risk management consultant where he supported the design and operation of chemical process, pipelines, and manufacturing facilities from the fire & explosion perspective.

**Areas of Specialization**

Risk Management &amp; Risk Assessments

Fire and Explosion

Fire Dynamics

Computational Fluid Dynamics

Gas Dispersion Analysis

Explosion Blast Effects

Fire Protection Systems

Fire &amp; Gas Detection Systems

Chemical and Manufacturing Processes

Industrial and Process Safety

Combustible Dust Hazards

Process Hazards Analysis (PHA)

Dust Hazard Analysis (DHA)

Flammable and Combustible Liquids

**Education**

M.S., Safety, Risk &amp; Reliability Engineering. Heriot-Watts University. 2014

M.S., Fire &amp; Explosion Engineering. University of Leeds. 2009

B.S., Chemical Engineering. Simon Bolivar University. 2007

January 2021

## **Licensed Professional Engineer (P.E.)**

State of Texas ..... License No. 125321

## **Other Certifications**

Certified Fire Protection Specialist (CFPS) ..... Certificate No. 4676

Certified Process Safety Professional (CCPSC) ..... Certificate No. 2019045320629707

## **Language**

English ..... Fluent

Spanish ..... Fluent (Native)

## **Professional Affiliations/Honors**

### **Society of Fire Protection Engineers (SFPE)**

Professional Member

## **Positions Held**

### **Engineering Systems Inc., Miami, Florida**

Sr Staff Consultant, 2020 – Present

### **Baker Engineering and Risk Consultants (AKA BakerRisk), Houston, Texas**

Senior Process Safety Engineer, 2019 – 2020

### **Bechtel Oil and Gas, Houston, Texas**

Senior Process Safety Engineer, 2019

### **Environmental Resource Management (ERM), Houston, Texas**

Senior Safety & Risk Consultant, 2013 – 2019

### **Arcadis, London, United Kingdom (UK)**

Process Safety Analyst, 2012 – 2013

### **Wood Group Mustang, Woking, United Kingdom (UK)**

Technical Safety Engineer, 2010 – 2012

## Continued Education

Global Congress of Process Safety (GCPS), American Institute of Chemical Engineers (AIChE), 2020  
Lithium-ion Batteries: What Fire Protection Engineers Should Know, Society of Fire Protection Engineers (SFPE), 2020  
Using the Quantitative Risk-Based Approach for Fire Safety in Practice, Society of Fire Protection Engineers (SFPE), 2020  
75<sup>th</sup> Annual Instrumentation and Automation Symposium for the Process Industry, Texas A&M University, College Station, Texas, 2020  
Global Congress of Process Safety (GCPS), American Institute of Chemical Engineers (AIChE), 2019  
Global Congress of Process Safety (GCPS), American Institute of Chemical Engineers (AIChE), 2018  
Technical Safety Fundamentals (TSE-101), Shell, Houston, TX, 2015  
PHASt Advance, Det Norske Veritas (DNV), DNV Software Houston, 2013  
Training Course for PHAST, Det Norske Veritas (DNV), DNV Software, London, 2012  
Angus Fire, Angus Fire Foam Workshop, London, UK, 2011  
Fire Dynamic and Modelling, University of Leeds, Continuing Professional Development (CPD) unit, 2008  
Emergency Response to Hazardous Materials Technician Level, Garner Environmental Services, Houston, Texas, 2007

## Publications/Presentations

“Emergency Management integration during the design phase”, **A. Jimenez**, presented at the Spanish presentations of the 16<sup>th</sup> Global Congress for Process Safety (GCPS), American Institute of Chemical Engineers (AIChE), virtual, 2020  
“Facility Siting, a Practical Approach”, **A. Jimenez**, Y. Saud, R. MacNguyen, presented at the 15<sup>th</sup> Global Congress for Process Safety (GCPS), American Institute of Chemical Engineers (AIChE), New Orleans, LA, April 2019  
“Operability of Fire Protection Systems”, **A. Jimenez**, presented at ExpoFuego 2019, EnginZone, Lima, Peru, 2019