

# ENCOMPASSED ENGINEERING

ENCOMPASSED ENGINEERING, LLC

CORPORATE CAPABILITIES

# Corporate Profile

## Our Mission

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We will seek to meet and exceed our clients' expectations by providing diverse technical support and delivering experienced, recognized, subject matter experts.

We will provide innovative, cost-effective solutions that are grounded in experience, developed by recognized subject matter experts, and prepared and delivered in a trusted manner above reproach.

We will remain steadfastly focused on our clients' goals and needs, working diligently to ensure that the issues which they are charged with solving are moved forward to a cost-effective resolution.

We will continue to work tirelessly to pursue new growth opportunities while remaining true to our core values of:

- Placing client needs first,
- Maintaining open communication with the client at all levels,
- Implementing strong project controls,
- Providing qualified experts and industry leaders,
- Providing the best solutions in a lean management environment, and
- Demonstrating that we respect our employees, consultants, and clients by always providing honest, professional, and ethical solutions and services.

## Our Vision

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To be the professional solutions organization of choice for clients across industry lines when meeting regulations in a cost-effective manner. We will do this by fostering an environment where subject matter experts can leverage their experience to exceed customer expectations and provide unique, innovative, enduring solutions.

## What We Do

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Encompassed Engineering, LLC provides world-class services to its customers through a diligent and rigorous selection process to find the right professional to fit any need. We have our roots in providing engineering support for facilities across the DOE complex. We carry that discipline and rigor through every facet of our process, and coupled with our experience in project management, the solutions and support provided by our seasoned professionals are the best in the industry, bar-none.

# Corporate Profile

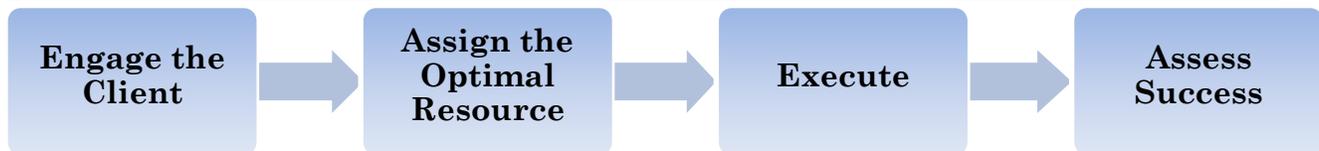
## Who We Are

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Encompassed Engineering, LLC is, first and foremost, a solutions company. We find the right solution, the first time through, with remarkable efficiency, all-while maintaining unparalleled professionalism and integrity. We strongly believe that customers deserve the “best” solution, which we provide through an application of unwavering commitment to integrity and world-class experience in the industry. Our staff is made up of seasoned professionals, encompassing both soft and hard skills. We believe that the professional diversity we bring to the table enables us to provide well-rounded and thorough solutions that others simply can't.

## Our Solutions Approach

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Encompassed Engineering, LLC uses a simple, straight-forward approach that always begins with the client. With an open discussion, we can gain a firm understanding of the clients' needs to ensure that issues are addressed early. This results in a clear understanding of the clients' expectations, required services, interfaces, and any other constraints.

Our next step is to assign the optimal arrangement of technical expertise and resources. We believe our work is all about relationships and that true success is only achieved by engaging the right people for the assignment. At every step of the way, we ensure the technical expertise assigned is the best possible, and that their experience is not only world class, but also timely and relevant. We are fortunate to be able to engage well known, seasoned professionals that are in some cases, nationally recognized. Sometimes the right expert is outside our organization, so we maintain and build our professional affiliations to allow us to reach out and obtain most-any resource imaginable.

In executing project support work, we fully immerse ourselves with the clients' project team to ensure that our activities and products are properly integrated with the rest of the project. For assessment work, we establish relationships with the client that affords us the appropriate access and knowledge for a credible assessment without compromising our objective, independent role, and most importantly, our integrity. In all cases, we are able to deploy, as needed, to client locations or to central locations for all our work. Locations are based on our client needs and mutual agreement on how to best meet those needs.

# Summary of Expertise

Encompassed Engineering, LLC provides a multitude of services, including but not limited to engineering, project management, training development, classroom instruction, emergency management, and even graphic artistry.

## **Engineering**

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We have a diverse engineering resource pool made up of fire protection engineers, mechanical engineers, civil engineers, and many others. We have engineers that are published, national committee members, contributors to DOE headquarters policy documentation, knowledgeable in NQA-1 software quality requirements, and even participated in various national efforts critical to the advancement of safety and regulation within DOE. Most importantly, the majority of our engineers on staff are registered engineers, subscribing to a nationally recognized code of ethics to provide the highest quality project support with unwavering integrity.

## **Project Management**

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Our personnel have lead various projects within and outside the federal system. Due to the diversity within the team, projects supported range from small to large and everything in-between. Most importantly, our people have been formally trained and are capable of a multitude of project management styles: PERT, Agile, Waterfall, Adaptive, Traditional, etc.

## **Training**

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Our staff has extensive experience in DOE-O-426.2 compliant training development, and the application of DOE-HDBK-1078-94, Training Program Handbook: A Systematic Approach to Training.

We have developed training from the ground up for facilities to meet DOE and federal requirements. We ensure that students whom attend our courses are not only knowledgeable, but have been given the tools necessary to do their jobs safely. At the core of our training program, safety is always number one. As part of that commitment, we prefer to tailor training needs to the customer; this ensures that classes attended by students are not only memorable, but also relevant to their experiences. We have found that this creates a lasting impression on the students and empowers them to make safe decisions in the field.

# Summary of Expertise

Our expertise includes:

## *Classroom Training*

## *Project Support and Assessment*

<ul style="list-style-type: none"> <li>• Introduction to Fire Protection Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Program Management and Integration</li> </ul>
<ul style="list-style-type: none"> <li>• Application of Fire Protection in DOE Facilities</li> </ul>	<ul style="list-style-type: none"> <li>• Contractor Operational Readiness Review (ORR)</li> </ul>
<ul style="list-style-type: none"> <li>• Water-Based Fire Suppression Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Readiness Preparation and Review (RA)</li> </ul>
<ul style="list-style-type: none"> <li>• Fire Alarm Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Technology Readiness Assessment (TRA)</li> </ul>
<ul style="list-style-type: none"> <li>• Fire Protection DOE Orders and Standards</li> </ul>	<ul style="list-style-type: none"> <li>• Management Self-Assessment (MSA)</li> </ul>
<ul style="list-style-type: none"> <li>• Gaseous Fire Suppression Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Independent Evaluation</li> </ul>
<ul style="list-style-type: none"> <li>• Application of CFAST</li> </ul>	<ul style="list-style-type: none"> <li>• Staff Augmentation</li> </ul>
<ul style="list-style-type: none"> <li>• CPR</li> </ul>	<ul style="list-style-type: none"> <li>• Fire Protection Mentoring</li> </ul>
<ul style="list-style-type: none"> <li>• Basic and Advanced Respirator</li> </ul>	<ul style="list-style-type: none"> <li>• Program Planning</li> </ul>
<ul style="list-style-type: none"> <li>• Hazardous Energy Control</li> </ul>	<ul style="list-style-type: none"> <li>• Fire Hazards Analysis (FHA)</li> </ul>
<ul style="list-style-type: none"> <li>• Others</li> </ul>	<ul style="list-style-type: none"> <li>• CFAST Modeling</li> </ul>

## **Classroom Training**

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Below is a sample of courses available by Encompassed Engineering, LLC:

### **Introduction to Fire Protection Engineering**

This is a 4 day (32 hour) course that addresses the following six (6) topics: 1) What is a Fire Protection Engineer, 2) Fire Dynamics, 3) Fire Suppression Systems, 4) Fire Alarm Systems, 5) Passive Fire Protection Features, and 6) Human Behaviour. These courses are designed for new Fire Protection Engineers entering the field as well as a refresher for seasoned engineers. This course is suitable for Fire Protection Engineers, Design Authorities, Design Agencies, and other Engineering personnel.

### **Application of Fire Protection in DOE Facilities**

This is a 2 day (16 hour) course designed to provide Fire Protection Engineers with the tools they need to become proficient in DOE facilities. It also provides real world scenarios and example problems for field engineers. The scenarios are designed to allow application

# Summary of Expertise

of problem solving techniques to be used in facilities upon completion of the course. This course is suitable for Fire Protection Engineers, Design Authorities, Design Agencies, and other Engineering personnel.

## **Water-Based Fire Suppression Systems**

This is a 2 day (16 hour) course designed to introduce employees to the subject of water-based fire suppression systems used in new and existing facilities. The first day informs students about the general concept of designing a sprinkler system for any type of occupancy using NFPA 13, Standard for the Installation of Sprinkler Systems. The final day is aimed at inspection, testing, and maintenance of suppression systems using NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems. If necessary, the client may request a more in-depth course into NFPA 13 and/or NFPA 25. This course is suitable for Fire Protection Engineers, Design Authorities, Design Agencies, and other Engineering personnel.

## **Fire Alarm Systems**

This is a 2 day (16 hour) course designed to address the installation, inspection, testing, and maintenance of fire alarm systems in accordance with NFPA 72, National Fire Alarm and Signalling Code. This course addresses the application of fire alarm systems in occupancies such as operational facilities, business, storage, assembly, and industrial. This course is suitable for Fire Protection Engineers, Design Authorities, Design Agencies, and other Engineering personnel.

## **Fire Protection DOE Orders and Standards**

This is a 2 day (16 hour) course designed to introduces employees into DOE fire protection orders and standards. The outline of this class is based on fire protection requirements found in DOE 420.1C and DOE-STD-1066. Fire Protection Engineers will walk away from this course with an understanding of the application of DOE orders and standards for fire protection. This course is suitable for Fire Protection Engineers, Design Authorities, Design Agencies, and other Engineering personnel.

## **Project Support and Assessment**

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### **Program Management and Integration**

Encompassed Engineering, LLC staff possesses a strong background in all aspects of program and project management of large and small federal projects. We focus on integrating technical expertise with management experience to produce well rounded project managers. Our expertise was acquired over many man-years of experience in the

# Summary of Expertise

design, construction, and operation of facilities, infrastructure projects, and the successful decommissioning and demolition of infrastructure projects. Through our access to uniquely qualified resources, we have a proven record of strong leadership and experience in project planning, staffing, budgeting, cost control, scheduling, program/project assessment and review, quality control, business process improvement, and policy and regulatory analysis. We excel in troubleshooting and providing guidance and assistance to managers with problem organizations and projects.

## **Fire Protection Assessments**

Encompassed Engineering, LLC staff are subject matter experts in the field of fire protection, and have been chosen to conduct various types of assessments. Our staff can perform the roll as a fire protection expert for assessments such as Contractor Operational Readiness Reviews (ORR), Readiness Reviews (RA), Technology Readiness Assessments (TRA), Management Self-Assessments (MSA), and other necessary independent evaluations. Encompassed Engineering, LLC provides a team of fire protection subject matter experts that can evaluate and assess fire protection organization processes and implementation of fire protection programs. Our staff is well versed in various codes and standards (e.g. International Building Codes, NFPA Codes and Standards, DOE Orders, DOE Standards, etc.). The experts of our company have the ability to ensure compliance with all governing regulation and directives related to fire protection.

## **Fire Hazards Analysis (FHA) Development**

The fire protection engineers on our staff are thoroughly trained and qualified on the development of FHAs in support of DOE facilities. We strive for efficiency and accuracy when developing FHAs; we do this by engaging the customer to discuss their needs. That allows us to tailor the FHA such that the final product is not only accurate, but also relevant and incredibly useful to the end user. Oddly enough, this is a step that most others don't take and one of the many that sets Encompassed Engineering, LLC apart from the rest.

## **CFAST Modeling**

CFAST modeling is something Encompassed Engineering, LLC engineers have been involved with for many years. We even helped DOE-HQ in updating their safety software toolbox code set to accommodate later revisions of CFAST. Our staff can not only develop CFAST models, but also advanced CFAST tools to assist the customer beyond what is capable with CFAST alone. Our tools and capabilities have been utilized in numerous DOE facilities across the U.S.

# Summary of Expertise

## Technical Communications

Encompassed Engineering, LLC technical writers and editors are experienced in documenting projects and large, complex systems, including plant control systems and major electrical distribution systems. They are equally adept with paper or on-line documentation using a variety of software programs and media.

## Our Customers

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The following is a partial list of organizations employees of Encompassed Engineering, LLC staff have had the pleasure of working with in the past:

Department of Energy - National Nuclear Security Administration

Nuclear Waste Partnership

Fluor-BWXT Portsmouth

Consolidated Nuclear Security

Los Alamos National Laboratory

Savannah River Nuclear Solutions

Stanford Underground Research Laboratory

Nevada Test Site

Sandia National Laboratory

Oak Ridge National Laboratory

# Point of Contact

## Doing Business with Encompassed Engineering, LLC

We listen to our clients and work hard to focus our efforts on providing the best solutions. Our clients' goals have and will always be our company's driving focus.

Encompassed Engineering, LLC is a registered as Small Business and participates in federal contracting administered through the System for Award Management (SAM).

We are also readily accessible through purchase orders, letter contracts, and contracts.

## Our Location

Encompassed Engineering, LLC is headquartered in Aiken, South Carolina to provide local support to our clients. The flexibility of our company allows us to offer services nationwide at locations specified by our clients. This ensures complete integration with clients and maximizes our responsiveness to meet expectations.

Encompassed Engineering, LLC is also located on the worldwide web at <http://www.enc-eng.com>

For further information please contact:

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CAGE Code: 7R7U6  
NAICS Codes: 922160, 541330, 541611, 541618,  
541690, 541990, 561320