



# Capability Statement

Experience » Ingenuity » Excellence

Cogoto, Inc. is an engineering and technical services company dedicated to ensuring the safety, reliability, and performance of critical assets and operations. With extensive experience spanning aerospace, energy, and offshore sectors, we elevate clients' capabilities in engineering, design, system operations, and project management.

Leveraging our expertise in rocket engines and high-density energy systems, Cogoto provides innovative ideas and solutions, encompassing technology development and risk management, to strengthen our customers' products and operations.

Our distinctive integration of data analytics and quantitative risk assessment results in improvements to system performance, operability, and resilience, highlighting the exceptional value of our services.



## Core Capabilities

### ► Risk Management Services

#### Quantitative Risk Assessments

- Create predictive, quantitative risk and decision-making models using event trees, fault trees, and probabilistic risk assessment (PRA) simulations to identify system vulnerabilities and mitigative actions.

#### Reliability Engineering

- Manage asset reliability and operations identifying risks through failure modes analysis, reliability block diagrams, fault tree analysis (FTA), and maintenance optimization.

#### Hazard Analysis and Safety Engineering

- Identify and analyze safety hazards and their impacts using techniques such as HAZOP, what-if analysis, failure modes analysis, and develop hazard control strategies.

#### Failure Investigations

- Identify failure causes through tools like root cause and causal network analyses, advise on post-incident corrective actions, and facilitate effective risk communication.

### ► Technology Development and Evaluation

#### Technology Advancement

- Evaluate both established and emerging technologies to improve their safety, efficiency, and performance through system modeling, data analysis, and digital visualization.

#### Concept Studies and Requirements

- Explore, assess, and develop early stages ideas, concepts, or innovations including feasibility analysis, technical risks and viability, cost-benefit analysis and requirements.

#### Conceptual Design and Trades

- Conduct initial design studies, refine project requirements, develop system architecture, engage in design trade-offs and decision-making early in the project lifecycle.

#### Modeling, Simulation, and Analysis

- Conduct data analysis and create high-fidelity models of critical systems, including digital twins, for virtual testing and robust decision support.

### ► Technical Services and Training

#### Independent Technical Assessments

- Conduct design and trade studies reviews, and provide red team assessments for both technical proposals and other project, system, design, or work products.

#### Technical Advisory Services

- Assist with strategic technical roadmapping, technology readiness, process optimization and operational excellence.

#### Human Factors System Integration

- Ensure seamless integration of hardware, software, human factors, human reliability, and external interfaces within complex engineered systems.

#### Knowledge Transfer and Skills Development

- Perform tacit knowledge capture, foster personnel development and facilitate the transfer of technological knowledge.

## Past Performance

#### ✓ DOE-NETL-GTI Subcontracts

- Supported a 10 MWe Supercritical Carbon Dioxide (sCO<sub>2</sub>) Pilot Plant Test Facility design and startup sequence, and developed project risk management.
- Developed Process Design Packages (PDP) for an 800MTPD gasification plant and program risk management strategy.

#### ✓ Anadarko Petroleum Corporation Contracts

- Conducted thorough Probabilistic Risk Assessment (PRA) for the 20k psi Blowout Preventer (BOP) system and effectively managed risk communication with NASA and BSEE.
- Conducted a drillship Dynamic Positioning (DP3 class) system Probabilistic Risk Assessment (PRA) as a team with NASA Johnson Space Center's Reliability and Risk Analysis Group.

#### ✓ Blue Origin Subcontract

- Provided engineering support for New Glenn rocket's design system safety verification and risk reduction including GN2 distribution, Propellant Estimation System, and Umbilicals.

## Contact Us for More Information

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## Small Business

sam.gov, SBA,  
Cal eProcure

CAGE: 7E4H4  
DUNS: 079746213

UE ID: T4LKKGKQA299  
Cal eProcure SB: 2000446

NAICS Codes: 541330 Engineering Services (PRIMARY)  
541614, 541690, 541715, 611430, 611691