

Foresight Engineering & Technologies PLLC

Applied Engineering | Energy Systems | Advanced Materials

Foresight Engineering & Technologies delivers advanced engineering, energy systems, and materials solutions for aerospace, defense, and industrial applications. A certified minority-owned small business headquartered in Nashville, TN, with demonstrated federal and commercial performance across the most demanding technical programs in the United States.

Core Competencies

- Structural and mechanical systems engineering for aerospace and defense platforms
- Energy systems design, analysis, and integration — including nuclear, renewable, and hybrid systems
- Advanced materials research, characterization, and application engineering
- Thermal and fluid systems analysis, simulation, and optimization
- Systems engineering and integration for complex multi-discipline programs
- Manufacturing process engineering and quality assurance support
- R&D support for government and commercial clients

Key Differentiators

- **Federally Proven** — Documented performance with Boeing, DOE/NNSA, NASA, AFRL, and U.S. Navy.

→ **Certified Small Business** — Minority-owned SB status supports prime teaming and set-aside eligibility.

→ **Domestic & International Reach** — Service area covering the United States and West Africa.
- **Multi-Discipline Integration** — Structural, thermal, materials, and energy systems expertise under one roof.

→ **Senior-Led Execution** — Senior engineers own and deliver the work on every engagement.

Company Data

UEI	FB62ALH243A7
CAGE Code	15G82
Business Type	Minority-Owned Small Business
Location	Nashville, TN
Service Area	United States & West Africa

NAICS Codes

- 541330 / Engineering Services
- 541715 / R&D in Physical, Engineering & Life Sciences
- 541690 / Other Scientific & Technical Consulting Services

Leadership Strengths

- Technical Rigor** — Advanced degrees and federally credentialed research backgrounds across aerospace, materials, and energy.
- Program Awareness** — Hands-on experience in FAR/DFARS environments and prime/subcontractor relationship management.
- Small Business Agility** — Senior staff directly engaged on every project; executive-level attention on all deliverables.

Past Performance & Capabilities

Selected Past Performance

The following projects represent Foresight's demonstrated capability to deliver complex, high-consequence engineering work. All engagements reflect direct technical execution — not oversight or advisory roles.

Boeing (~\$1.38M)

Structural and ergonomic engineering support for commercial seat comfort optimization. Delivered analysis, design iteration support, and materials recommendations across multiple aircraft platforms in compliance with FAA and Boeing internal standards.

DOE/NNSA

Energy systems engineering including thermal management analysis and materials behavior assessment under high-radiation environments. Deliverables informed safety case documentation per applicable DOE orders.

NASA

Advanced materials characterization and application engineering for space system components. Material selection trade studies, failure mode analysis, and process qualification support integrated into NASA program technical baselines.

AFRL

R&D support spanning advanced structural materials and aerospace systems integration. Technical analysis, computational modeling, and program technical review participation meeting AFRL data rights requirements.

U.S. Navy

Systems-level analysis and technical services for naval platform development and sustainment. Multi-discipline engineering analysis and interface documentation per NAVSEA engineering standards.

☐ All past performance engagements were completed with documented technical acceptability and on-schedule delivery. References available upon request.

Capabilities Summary

Aerospace & Defense Engineering — Structural analysis, systems integration, and design support across all phases of development.

Energy Systems — Design and analysis of nuclear, renewable, and hybrid energy systems for federal and commercial clients.

Advanced Materials — Material selection, failure analysis, NDE support, and process qualification for high-performance applications.

R&D Support — Federally compliant research and development services including experimental design, data analysis, and technical reporting.

Contact Us

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MINORITY-OWNED SB

Available for teaming arrangements, subcontracting opportunities, sole-source justifications, and competitive proposal support. We respond to all inquiries within one business day.