

Capability Statement

TechScale Solutions LLC, founded in 2014 is a small business providing technical due diligence, engineering execution, and commercialization support for complex technologies. We enable federal agencies, national laboratories, prime contractors, and developers to de-risk innovations and accelerate the transition from prototype to early deployment.

Core Competencies:

- **Independent technical due diligence and feasibility assessments** for emerging technologies
- **System-level engineering review, integration, and risk reduction**
- **Product definition and system architecture development**
- **Techno-economic modeling and cost-reduction strategies**
- **Design for manufacture (DFM) and supply chain development**
- **Pilot, demonstration, and FOAK deployment support**
- **Deep domain experience:** hydrogen, fuel cells, energy storage, CO₂ capture/conversion, critical materials purification and recycling, advanced materials, electrochemical and electromechanical systems

Differentiators:

TechScale Solutions delivers independent, execution-driven engineering support aligned with federal agency and prime contractor needs—reducing risk and advancing complex technologies from concept through deployment.

- **Deep engineering and scale-up experience** - Proven track record advancing energy, defense, and industrial technologies from prototype to early deployment.
- **Execution-focused support** - Hands-on problem solving that aligns engineering with cost, schedule, and performance to keep programs on track.
- **Independent technical judgment** - Objective assessments supporting program reviews, funding decisions, and key go/no-go milestones.
- **Flexible engagement models** - Scalable support that integrates with agency teams and prime contractors without disruption.

Past Performance:

Department of Energy (DOE)

- 2021 DOE Hydrogen Program R&D award recipient
- Led project management for a prime contractor across multiple DOE-funded programs
- Supported ARPA-E funded advanced technology demonstrations

NASA

- Led project management for a prime contractor to demonstrate an integrated lunar hydrogen production and storage system

Company Data:

UEI: PLASF9YJKSD1

Cage Code: 19ZQ2

Duns: 080586203

Accepts Credit Cards: Yes

NAICS

- 541330 – Engineering Services
- 541690 – Other Scientific and Technical Consulting Services
- 541715 – Research and Development in the Physical, Engineering, and Life Sciences
- 541611 – Administrative Management and General Management Consulting Services

Product Service Codes (PCS)

- R425 – Engineering and Technical Services
- R408 – Program Management/Support Services
- A12 – R&D – Energy (Applied Research)
- A13 – R&D – Energy (Advanced Development)