

FEDERAL CAPABILITY STATEMENT

UEI: KP63K59QPNP6 | **CAGE:** 5AHG4 | **Founded:** 2007 | **Location:** McLean, VA

Socioeconomic Status: SBA-Certified Service-Disabled Veteran-Owned Small Business (SDVOSB) | Small Business

Certifications: CMMC Level 2 | ISO 9001:2015 (Engineering and Information Technology)

1. CORPORATE OVERVIEW

Founded in 2007 and headquartered in the National Capital Region, iCES Corporation is an SBA-Certified Service-Disabled Veteran-Owned Small Business (SDVOSB) delivering mission-critical Artificial Intelligence, Cybersecurity, Model-Based Systems Engineering (MBSE), and Space/Cloud Infrastructure to the Department of War (DoW), Intelligence Community, and Civil Agencies. Led by Dr. Edward H. Ghafari—telecom pioneer, defense executive, Professor & Research Scientist at The George Washington University School of Engineering & Applied Science (GWU SEAS), and AI Governance Advisor to international organizations including the World Bank—iCES Corporation bridges advanced academic research with operational, high-assurance mission execution.

2. CORE TECHNICAL PILLARS

Domain Pillar	Technical Capabilities & Core Competencies
1. AI & Intelligent Automation <i>Agentic AI, LLMOps & Quantum Machine Learning (QML)</i>	- Multi-agent autonomous workflows, secure enterprise RAG, and deterministic LLMOps governed for high-side and air-gapped environments. - AI-automated compliance, requirements traceability, and applied research in Quantum Machine Learning (QML) for complex optimization and sensor fusion.
2. Cybersecurity & Resilience <i>Zero Trust & Post-Quantum Cryptography (PQC)</i>	- Heterogeneous defense-in-depth architectures, DoD Zero Trust Reference Architecture alignment, and AI-enabled SOC automation. - Post-Quantum Cryptography (PQC) migration roadmaps, NIST 800-171 / CMMC 2.0 enclave engineering, and software supply-chain assurance.
3. Digital Engineering & Digital Twins <i>MBSE & SysML v2</i>	- End-to-end digital thread architecture and authoritative single source of truth (ASoT) across the ISO/IEC/IEEE 15288 system lifecycle. - Automated SysML v2 model generation, metamodel compilation, state-transition verification, and real-time digital twins from legacy defense documentation.
4. Mission Infrastructure <i>Satellite Ground Systems & Mission Cloud</i>	- Software-defined satellite ground systems engineered for proliferated LEO (pLEO) and multi-mission telemetry, tracking, and command (TT&C). - Multi-cloud, hybrid, and on-premises environments engineered for FedRAMP 20x and Continuous Authority to Operate (cATO).

3. CONTRACT VEHICLES & PROCUREMENT ACCESS

Contract Vehicle	Contract Number	Scope / Pool	Ordering Mechanism
OASIS+	47QRCA27DV002	SDVOSB & Small Business Pools · Technical & Engineering Domain	Task Orders & SDVOSB Sole-Source
MDA SHIELD	HQ085926DF291	Missile defense task areas from research and prototyping through systems engineering, test, sustainment, and cybersecurity	Direct Task Order Competition
NASA SEWP VI	80TECH26D0270	Category C: Mission-Based ITC/AV Service Solutions	Agency-Wide GWAC Task Orders
GSA MAS	GS35F438AA	SINs 54151S IT Professional Services, 54151HACS Highly Adaptive Cybersecurity Services, 611420 Training, OLM Order-Level Materials	RFQ / Direct Award / BPA

Primary NAICS: 541512 (Computer Systems Design Services)

Additional NAICS: 541330 (Engineering Services), 541511 (Custom Computer Programming), 541513 (Computer Facilities Management), 541519 (Other Computer Related Services), 541715 (R&D in Physical, Engineering, and Life Sciences).

4. PROVEN PAST PERFORMANCE

- **United States Strategic Command (USSTRATCOM) — TS/SCI Cloud & DevSecOps Modernization:** Architected and executed secure cloud migration and automated DevSecOps pipelines within a mission-critical TS/SCI environment, accelerating software delivery velocity while enforcing strict zero-trust access controls.
- **National Oceanic and Atmospheric Administration (NOAA) — Satellite Ground Systems Cyber & AI/ML:** Provided IT security engineering, DevSecOps, CSAM compliance automation, and AI/ML anomaly detection across 15 FISMA High/Moderate satellite ground systems encompassing 20,000+ system elements.
- **Department of War (DoW) — Defense Collaboration Services (DCS):** Delivered systems engineering and operational sustainment supporting 30,000+ concurrent users across 90+ countries; recipient of the DoD Value Engineering Award.
- **NASA — Satellite Ground Systems Cybersecurity & Operations:** Cybersecurity and operations support for the GOES-R and JPSS satellite ground systems.
- **U.S. Navy — Agentic AI for Digital Engineering:** Delivered an agentic AI system that converts legacy engineering artifacts into SysML v2 models to support MBSE and digital twins.
- **DISA — Enterprise Systems Engineering & Portfolio Management:** Led Enterprise Wide Systems Engineering (EWSE) for DISA and GIG Portfolio Management for DISA Enterprise Services.

5. KEY DIFFERENTIATORS

- **SDVOSB Set-Aside & Sole-Source Eligible:** Streamlined access through OASIS+, SEWP VI, MDA SHIELD, and GSA MAS.
- **CMMC Level 2 & ISO 9001:2015:** ISO 9001:2015 certified quality management for Engineering and Information Technology, with a CMMC Level 2 cybersecurity posture for CUI/CDI work.
- **Academic & Standards Leadership:** Active leadership in SysML v2, INCOSE Adaptable Systems Architecture, NIST/NSF Trusted AI initiatives, and World Bank AI Governance.

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