



Federated AI

The PulseDNA Inc.

FEDERATED AI · SOVEREIGN INTELLIGENCE · AIR-GAPPED CAPABLE

"Stop searching for answers. Start seeing the truth."

CAPABILITY STATEMENT

2026

ENTITY
The PulseDNA Inc.

CAGE CODE
OYRQ3

UNIQUE ENTITY ID
JXQZCN42MF29

STRUCTURE
C-Corp · Small Business

CEO / PRICING AUTHORITY
Stephanie Joyce

CLEARANCE
Top Secret (CTO)

CONTACT

CEO / PRICING AUTHORITY

Stephanie Joyce

WEBSITE

pulsednafederatedai.com

/nuclear · /magiclens

SAM.GOV STATUS

Active · Registered & Current

PSC CODES

7A20

Application Dev
Software (Perpetual)

7B20

High Performance
Compute (HW+SW)

7H20

Platform Products — DB / Middleware / HW+SW

NAICS CODES

518210 — Computing Infrastructure Providers

541511 — Custom Computer Programming
Services

541512 — Computer Systems Design Services

541519 — Other Computer Related Services

541519 — IT Value Added Resellers

541690 — Scientific & Technical Consulting

541713 — R&D in Nanotechnology

611420 — Computer Training

SECURITY & FACILITY

Highest Employee Clearance:

TOP SECRET

Eugene Jin, CTO

Facility Security Level: Not Applicable

Air-gapped deployment capable. Zero-trust architecture. Immutable audit trail on all queries.

REGISTRATIONS & AFFILIATIONS



COMPANY OVERVIEW

The PulseDNA Inc. is a U.S.-based C-Corp small business delivering sovereign, federated AI infrastructure for government, defense, nuclear, and critical infrastructure clients. We build AI systems that operate in air-gapped, zero-trust environments — where data sovereignty, provenance, and auditability are non-negotiable. Our flagship product, **Magic Lens**, is a browser-native research co-processor that turns any document or webpage into a verified, multi-source knowledge graph in under 15 seconds. Our enterprise platform, **PulseFINE™**, delivers anomaly detection and dual simulation workflows for nuclear engineering compliance. We have completed two **DOE SBIR R&D projects** — one in Federated Learning as a Service (FLaaS) for multimodal insights in nuclear non-proliferation, and one in AI-driven smart grid engineering. Our team brings 50+ years of combined experience across Google, Meta, Oracle, Sony, Apple, MIT, and the Department of Energy.

CORE COMPETENCIES



Federated AI & Machine Learning

FLaaS architecture, multi-modal LLM/RAG/GenAI, privacy-preserving distributed inference across sovereign nodes



Nuclear & Energy AI Systems

NRC compliance automation, ECCS anomaly detection, 10 CFR 50 regulatory intelligence, DOE SBIR-proven



Zero-Trust & Air-Gapped Deployment

Sovereign cloud, air-gapped compute clusters, immutable audit trails, cryptographic provenance logging



Big Data Analytics & LLM Infrastructure

Large-scale system architecture, vector databases, real-time inference pipelines, completed production deployments



Knowledge Graph & Semantic Intelligence

Multi-source citation verification, NRC ADAMS integration, national lab connectors (ORNL, INL, Sandia, PNNL)



90-Day "Sandbox to Pilot" Innovation Pods

Rapid deployment model — from concept to working pilot in 90 days for nuclear and energy sector clients

PRODUCTS & SOLUTIONS

Magic Lens — Verified Intelligence Co-Processor

Browser-native AI research tool. Highlights text → builds a multi-source knowledge graph in 15 seconds. Four federated lenses: Historical Context, Discourse Mapping, Lab Evidence, Expert SME Routing. NRC ADAMS integration. Air-gapped capable.

\$50K-\$200K · Enterprise License

PulseFINE™ — Nuclear AI Infrastructure

Full AI infrastructure build for nuclear engineering. Anomaly detection, dual simulation workflows, ECCS compliance automation, sensor fusion, and predictive risk modeling. Goes beyond NRC compliance to proactive safety intelligence.

\$5M-\$15M · Full Infrastructure Build

DIFFERENTIATORS



Nuclear-Grade Trust Architecture

Built from zero-trust principles proven in DOE R&D. Every query is logged, every citation is timestamped, every result is traceable.



DOE SBIR Proven

Two completed DOE SBIR projects: FLaaS for nuclear non-proliferation and AI-driven smart grid engineering. Not theoretical — delivered.



Hyperscaler-Proof Deployment

Google, AWS, and Microsoft cannot enter air-gapped environments. We can. We start where trust is most critical and expand outward.

PAST PERFORMANCE

U.S. DEPARTMENT OF ENERGY · SBIR

FLaaS for Nuclear Non-Proliferation

Federated Learning as a Service — multimodal insights for nuclear non-proliferation monitoring. Sovereign data architecture, multi-node federated inference.

COMPLETED

U.S. DEPARTMENT OF ENERGY · SBIR

AI for Smart Grid Engineering

AI-driven engineering intelligence for smart grid systems. Predictive analytics, sensor fusion, and anomaly detection for critical energy infrastructure.

COMPLETED

GOVERNMENT CLIENT · ACTIVE CONTRACT

Magic Lens Enterprise Deployment

\$250K active contract on track to grow to \$2.5M. Federated AI research co-processor deployed for government compliance workflows.

ACTIVE · \$250K → \$2.5M

NUCLEAR SECTOR · PIPELINE

PulseFINE™ Nuclear AI Infrastructure

\$1.7M proposal submitted. Second nuclear sector client in active discussion. 90-Day Sandbox to Pilot Innovation Pod model.

PIPELINE · \$1.7M PROPOSED



CEO: Stephanie Joyce · CTO: Eugene Jin (TS) · COO: Loic Fourniller
pulsednafederatedai.com · pulsednafederatedai.com/nuclear

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