

## About Us

Duality Systems is a Colorado-based small business delivering AI-powered software and consulting solutions that optimize complex operations in space, defense, healthcare, and other complex industries. Our proprietary platform, Balance Scheduler, uses combinatorial AI to solve high-stakes scheduling and resource allocation problems in seconds—not days. We're proud to support U.S. Space Force, U.S. Space Command, and U.S. Air Force through traditional and SBIR contracts for strategic technology development. We are actively seeking partners, primes, and mission owners looking to embed advanced AI-based optimization into their operations.

## Core Capabilities

### AI-Driven Scheduling Optimization

- Solves dynamic multi-constraint scheduling problems for missions, personnel, and asset tasking.

### Sensor & Resource Allocation

- Currently adapting our platform to support optimal sensor tasking for Space Domain Awareness.

### Strategic Technology Integration

- Our systems are mission-agnostic and designed to integrate into larger C2, logistics, or digital twin environments.

### DoD & Industry-Facing Technology Consulting

- PhD-level expertise in AI/ML, human-centered design, and operations research.

## Differentiators

Duality Systems is a Colorado-based small business with elite PhD talent and proven results in optimization, AI/ML, and mission-critical scheduling. Our core platform is built on PhD research in operations research, risk analysis, and AI/ML—offering unmatched flexibility for adapting to real-world mission constraints.

Our team combines innovation certification from Stanford, deep DoD and healthcare experience, and hands-on operational design with Space Force, Air Force, and major healthcare systems. We specialize in human-centered, data-driven solutions that enable strategic outcomes—at speed, and at scale.

## Why Partner?

### Operationally Proven

- Deployed in DoD and commercial settings (USAF, USSF, healthcare), including AWS GovCloud hosting and provisional ATO at IL-5

### DoD Track Record

- Multiple SBIR Phase I, II, and III contracts with USAF and USSF; supporting ongoing initiatives for USSPACECOM/JCO

### Integration-Ready

- Technology built for modular deployment, collaboration with primes, and rapid mission adaptation

### Top Talent, Local Team

- Colorado-based company led by PhD talent, with deep roots in DoD and commercial innovation

## Contracting Vehicles

NASA SEWP and direct-award Phase III SBIR contracts. Additionally, we are members of SpEC & NSTXL OTAs, Defense Industrial Base Consortium (DIBC), and Cornerstone Consortium.

## Business Registrations, Certifications, & POC

CAGE: 8QGU4 / UEI: EGNKMHNP9987

NAICS: 541715, 54175, 513210, 541511, 541512, 541611, 541720, 541519, 518210

Certified Service-Disabled Veteran Owned and Woman-Owned Small Business

JCP Certified to receive technical data, DD Form 2345 exp. 2028/12/15

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