



**Polaron
Analytics**

CAPABILITY STATEMENT

AI • DATA ANALYTICS • DIGITAL ENGINEERING
RESEARCH & DEVELOPMENT • MISSION SUPPORT

SBA CERTIFIED 8(a) SMALL BUSINESS DELIVERING ADVANCED
ANALYTICS, AI/ML, DIGITAL ENGINEERING, AND TECHNICAL
SOLUTIONS TO FEDERAL AGENCIES



WHO WE ARE

Polaron Technologies, Inc. (DBA: Polaron Analytics) is an SBA-certified 8(a) small business headquartered in Dayton, Ohio, delivering advanced AI, machine learning, data analytics, software engineering, digital engineering, and research & development solutions to Federal agencies.

Since 2017, we have successfully supported Air Force, Space Force, Navy, NASA, Department of Energy, and other government organizations through prime and subcontract awards.

UEI: X3E VW996V971

CAGE: 7Z3N5

DUNS: 080917447

CORE CAPABILITY AREAS



AI & MACHINE LEARNING

- Predictive Analytics
- Generative AI / LLMs
- Agentic AI Systems
- Computer Vision
- Anomaly Detection
- Decision Support Systems



DATA ANALYTICS & DATA ENGINEERING

- Data Integration & ETL
- Data Warehousing
- Dashboard Development
- Business Intelligence
- Statistical Analysis
- Data Governance



SOFTWARE & DIGITAL SOLUTIONS

- Custom Software Development
- Cloud-Native Applications
- API Integration
- DevSecOps Support
- Database Design



MODELING, SIMULATION & DIGITAL ENGINEERING

- Physics-Based Modeling
- Computational Simulations
- Digital Twins
- Additive Manufacturing Analytics
- Materials Informatics
- Optimization Algorithms



RESEARCH & DEVELOPMENT

- SBIR / STTR Execution
- Technology Maturation
- Prototyping
- Experimental Design
- Technology Transition Support

WHY AGENCIES CHOOSE POLARON



SBA
CERTIFIED
8(a)



ELIGIBLE FOR
DIRECT SOLE
SOURCE AWARDS



PRIME
CONTRACTOR
EXPERIENCE



AIR FORCE, SPACE FORCE,
NAVY, NASA & DOE
PAST PERFORMANCE



ISO 9001:2015
CERTIFIED
QMS



AI/ML & ADVANCED
ANALYTICS
EXPERTISE



AGILE &
LOW-OVERHEAD
EXECUTION



DAYTON-BASED ACCESS
TO AFRL & DEFENSE
INNOVATION ECOSYSTEM

COMPANY INFORMATION



HEADQUARTERS
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www.linkedin.com/company/polaron-analytics/

ESTABLISHED: 2017

STATE OF INCORPORATION: OHIO

BUSINESS TYPE: SMALL

SBA CERTIFICATION: 8(a)

OWNERSHIP & SELF CERTIFICATION:

- Small Disadvantaged Business
- Subcontinent Asian American



GEOGRAPHIC AREA SERVED:
ALL STATES ACROSS USA



QUALITY COMMITMENT
DELIVERING INNOVATIVE SOLUTIONS
WITH INTEGRITY & EXCELLENCE

CONTRACT VEHICLES



SeaPort NxG

Contract Number:
N0017825D7696



AI Talent 2.0

Contract Number:
W519TC-25-G-0044



MDA SHIELD

Contract Number:
HQ085926DF823



U.S. Small Business Administration

Sole Source Authority

KEY DIFFERENTIATORS



AI-FIRST FEDERAL CONTRACTOR

Developing and deploying AI-enabled solutions for defense, research, engineering, logistics, workforce, manufacturing, and mission-support applications.



PROVEN SBIR/STTR PERFORMER

Successfully executed multiple Phase I and Phase II projects across Air Force, Space Force, Navy, NASA, and DOE.



RESEARCH-TO-OPERATIONS EXPERTISE

Ability to transition innovative technologies from research environments into operational government use.



INTEGRATED TECHNICAL TEAM

Capabilities spanning AI/ML, software engineering, data science, digital engineering, modeling and simulation, and program management.

REPRESENTATIVE FEDERAL PAST PERFORMANCE



SPACE FORCE (PRIME)

STTR Phase II – AI-enabled monitoring and quality assurance for advanced manufacturing systems.

PERIOD OF PERFORMANCE
2023 – 2024



AIR FORCE (PRIME/SUB)

Logistics analytics and AI solutions, including machine learning, predictive analytics, and decision-support applications.

PERIOD OF PERFORMANCE
2024 – 2025



NAVY (PRIME)

SBIR Phase I – Artificial intelligence and machine learning for advanced manufacturing and materials applications.

PERIOD OF PERFORMANCE
2023 – 2024



NASA (PRIME)

Dual-Use Technology Development – Computer vision and deep learning solutions for additive manufacturing quality assurance.

PERIOD OF PERFORMANCE
2023 – 2024



DEPARTMENT OF ENERGY (PRIME)

SBIR Phase I – Machine learning and predictive modeling for industrial process optimization.

PERIOD OF PERFORMANCE
2024 – 2025

NAICS CODES

541715	Research and Development in the Physical, Engineering, and Life Sciences (Except Nanotechnology and Biotechnology)
541330	Engineering Services
541511	Custom Computer Programming Services
541519	Other Computer Related Services
541611	Administrative Management and General Management Consulting Services
541690	Other Scientific and Technical Consulting Services
541713	Research and Development in Nanotechnology
541714	Research and Development in Biotechnology (Except Nanobiotechnology)
541810	Advertising Agencies
541990	All Other Professional, Scientific, and Technical Services
561990	All Other Support Services

SBA 8(a) SOLE SOURCE CONTRACTING

Federal agencies can award contracts directly to Polaron Analytics through the SBA 8(a) Program without a lengthy competitive procurement process, enabling:

- ✓ Accelerated acquisition timelines
- ✓ Reduced procurement burden
- ✓ Access to specialized AI/ML, data analytics, and engineering expertise
- ✓ Rapid mission execution
- ✓ Flexible contract structuring



Eligible for SBA 8(a) Sole Source Awards in accordance with current SBA and FAR regulations.

POINTS OF CONTACT



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CUSTOMERS & TEAMING PARTNERS



U.S. AIR FORCE



UNITED STATES SPACE FORCE

