

UEI: X3EWW996V971
CAGE: 7Z3N5
DUNS: 080917447
GSA: 47QTCA20D00F7

Capability Statement



Polaron Analytics

Based in Beavercreek, Ohio, **Polaron Technologies, INC** (Polaron Analytics) is an SBA-certified 8(A) Firm and has provided specialized services in data analytics, computational modeling & simulation areas since 2017. For the last six years, we have assisted government and non-government organizations within the USA, obtaining essential contracts with the Air Force, Space Force, Navy, and Department of Energy. We pride ourselves on providing a sophisticated performance that exceeds your project expectations using our in-house data analytics platform, MatVerse, while utilizing various machine learning algorithms.

We have expanded our services from Data Analytics and Computational Modeling to Research and Development, Engineering, and IT services, including but not limited to Program Management, Cybersecurity & Cyber Defense Operations, and Training. At Polaron Technologies, we aim to improve productivity by applying data science and engineering techniques. We'll put our expertise and innovation to enhance our clients' capabilities.

COMPANY INFORMATION

Polaron Technologies, Inc.

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Miamisburg, OH 45342-5063

☎ 937-705-0611

✉ info@polaronanalytics.com

🌐 <https://www.polaronanalytics.com>

in <https://www.linkedin.com/company/polaron-analytics/>

Established: 2017

EIN Number: 82-3036666

State of Incorporation: OHIO

Business type: Small

SBA Certification: 8(a)

Ownership and Self-Certification:

- Other Minority Owned
- Small Disadvantaged Business
- Subcontinent Asian American

Geographic Area Served: All states across USA

Registered in Disaster Recovery Registry: Yes

Accepts Government Credit Cards (P-cards): Yes



Core Competencies

- Data Analytics using Python,
- Machine Learning algorithms, and R.
- Data Science and Engineering
- Research & Development
- Forecast and Prediction
- Data visualization
- Expertise in identifying patterns, trends, outliers, and abnormalities in the data.
- Computational modeling and simulations
- IT Professional Services

Key Differentiators

- Dedicated team with AI/ML expertise.
- In-house infrastructure for AI/ML model development.
- Extensive past performances with various Federal Organizations in the AI/ML area.
- Utilization of data analytics methods in the Additive Manufacturing process.
- Expertise in various Python packages, such as Scikit-learn, PyTorch, TensorFlow, pandas, etc.
- Molecular and multi-scale modeling software, such as LAMMPS, NAMD, etc.
- 8(A) certified by the Small Business Administration (SBA).
- On-Time Delivery & Cost-Efficient Projects.
- Expertise in data extraction from databases and data generation from real or theoretical/virtual models.
- Participating in the ESP Program under the Ohio Third Frontier by the Dayton Miami Valley Entrepreneur Center.

Industry Codes

NAICS

- 541715 (Primary)** Research and Development in The Physical, Engineering, And Life Sciences (Except Nanotechnology and Biotechnology).
- 511210** Software Publishers
- 518210** Data Processing, Hosting, And Related Services
- 541690** Other Scientific and Technical Consulting Services
- 541713** Research and Development in Nanotechnology
- 541714** Research and Development in Biotechnology
- 541519** (Except Nanobiotechnology) Other Computer Related Services
- 541990** All Other Professional, Scientific, and Technical Services
- 541330** Engineering Services
- 541511** Custom Computer Programming Services
- 511210** Software Publishers
- 561990** All Other Support Services

PSC

- AC11** National Defense R&D Services; Department of Defense - Military; Basic Research.
- AC32** National Defense R&D Services; Defense-related activities; Applied Research.
- AJ11** General Science and Technology R&D Services; General science and technology; Basic Research.
- AJ12** General Science and Technology R&D Services; General science and technology; Applied Research.
- AJ13** General Science & Technology R&D SVCS; General Science & Technology; Experimental Development.
- DB01** IT and Telecom - High Performance Computing (HPC) Support Services (Labor).
- R412** Support-Professional: Simulation.
- R425** Support- Professional: Engineering/-Technical.



Past Performance

Selected project works

(contact us for a complete list of Past Performances):



Agency: Navy

Period of Performance: 2023-2024

Scope: SBIR Phase I, developing machine learning models

Contract No.: N6833524C0124



Agency: Space Force

Period of Performance: 2023-2024

Scope: STTR Phase II, developing deep learning models

Contract No: FA864923P1242



Agency: NASA

Period of Performance: 2023-2024

Scope: Dual Use Technology Development (developing deep learning models)

Contract No.: 80NSSC23M0021



Agency: Department of Energy

Place of Performance: Dayton, Ohio

Period of Performance: 2021 - 2022

Scope: Advising Services for SBIR phase



Agency: Air Force

Place of Performance: Dayton, Ohio

Period of Performance: 2018 - 2019

Scope: STTR Phase

Subcontract No.: S-136-040-003 (Prime

Contract Number: FA8650-17-D-5407

with Delivery Oder No

FA8650-18-15-5420 (TO 4))

Government Business POC

Customers & Teaming Partners

Socio-Economic

Contracting Vehicle

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47QTCA20D00F7

Category: Information

Technology

Professional Services