

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

# Capability Statement



## Polaron Analytics

Based in Miamisburg, 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.**

📍 9059 Springboro Pike, Ste C

Miamisburg, OH 45342-5063

☎ 937-705-0611

✉ [info@polaronanalytics.com](mailto: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

### Rahul Bhowmik, Ph. D

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## Customers & Teaming Partners



## Socio-Economic



## Contracting Vehicle



**Contract number:** 47QTCA20D00F7  
**Category:** Information Technology Professional Services