

Capability Statement

About Us

Earth Science Network (ESN) provides expertise in Earth science, engineering, weather intelligence, and geospatial analytics to government, commercial, and research customers. Our expertise includes modernizing large-scale environmental archives, advancing Earth observation and model analysis, and applying data science and machine learning methods. We also provide software and systems engineering along with real-time alerting solutions that transform Earth science data into actionable insights. With strengths in science, engineering, and strategic consulting, ESN delivers mission success through innovative science and engineering solutions tailored to customer needs.



Core Competencies

Our services include:

- **Earth Science Data & Analytics**, Development of APIs, data pipelines, and decision-support tools.
- **Software & Systems Engineering**, full lifecycle engineering including design and deployment of high-availability platforms.
- **Environmental Data Archives**, Modernization of multi-petabyte repositories with ingest, processing, curation, and long-term cloud sustainability.
- **Cloud & Infrastructure Modernization**, Migration and optimization of enterprise systems across AWS, IBM Cloud, and hybrid environments.
- **Program & Project Management**, PMP-certified leadership of complex Earth science and technology programs.
- **Strategic Consulting & Mission Enablement**, Guidance on vision, roadmaps, and stakeholder alignment to advance Earth science operations.

Past Performance

Prime contractor support for Government and Corporate Customers:

- **NYC Office of Emergency Management (OEM)**: Delivered custom weather analysis & alerts via Weather-Analysis-as-a-Service (WAaaS) platform to support public safety operations.
- **NJ Turnpike Authority**: Delivered real-time weather analysis and alerts via WAaaS to improve field safety and efficiency.
- **The Salvation Army, Empire State**: Delivered tailored weather intelligence for disaster relief and continuity operations.

Differentiators

- Reusable (WAaaS) real-time operational analysis capabilities
- 30+ years of NASA/NOAA Earth science program, science, and technology expertise
- Applied Data Science and Machine Learning for decision support
- Mission-critical software and systems engineering for high-availability science platforms
- Trusted strategic consulting bridging government, research, and industry stakeholders

NAICS Codes

- 518210 Data Processing, Hosting, & Related Services
- 541511 Custom Computer Programming Services
- 541513 Computer Systems Design Services
- 541990 Professional, Scientific & Technical Services
- 541715 Research & Development in Physical, Engineering
- 541690 Other Scientific & Technical Consulting Services

PROFESSIONAL CERTIFICATIONS

- MIT Applied Data Science
- Brookings Institution Public Leadership
- PMI Project Management Professional
- FAC Programs/Project Managers (Senior, FAC-PPM)

Contact us:

Business Name: Earth Science Network (ESN)

UEI Number: Pending



Location: Rockville, MD 20852



Phone: 888-316-8366



Email: info@EarthScienceNetwork.com



Website: www.EarthScienceNetwork.com

