



Harnessing the power of science, information, technology, and engineering.

Founded in 2003 | Woman-Owned Small Business - INNOVIM | FCL Top Secret - INNOVIM Defense Services

INNOVIM is a science and technology company with a proven record of excellence in the development, design, integration, and operation of science-data instruments and mission-critical data systems; the transition of data, particularly weather and climate data; scientific products; and business and technical services for NOAA, NASA, DoD, and other government agencies.



Enterprise Mission Critical IT

- Systems & Network Administration
- Database Management & Storage
- High Performance Computing
- Cloud and Virtualization Design, Migration & Management



Software & Systems Engineering

- End-to-End System Development Lifecycle Support
- CI/CD Agile DevSecOps Methodologies
- Modular Open System Architectural Design (MOSA)
- Automated Build Processes & Testing



Data Science & Data Analytics

- Big Data Management
- Data Preparation, Architecture Solutions, & Data Environment Development
- Enterprise Data & Analytic Services - ML/AI
- Data Visualization, UI/UX
- Product Teams/Stakeholder Requirements/Engagement



Science & Weather Applications

- Earth Observation Data Collection, Storage, Processing, & Dissemination
- Global Precipitation, Extreme Weather Occurrence & Other Atmospheric Phenomena Modeling & Prediction
- Organizational Risk Assessments & Policy

Collaborating with our clients, we consistently excel in delivering mission-critical information with transparency, accuracy, and integrity. Our team of data scientists, systems engineers, and software programmers include recognized science and engineering subject matter experts and are backed by our domain-knowledgeable professionals.

AWS | Kubernetes | Docker | Jenkins | Angular | Ansible | Apache | Java | Spring | Pytorch | Tensor-Flow | ArcGIS | Snyk | Selenium | Ruby on Rails | Drupal | Wordpress | Python | C#, C++, C | Fortran | Javascript | SQL Server | Oracle | Hadoop | Jira | Github, Gitlab | UNIX | Linux | MacOS | VMWare

EXPERTISE



- Provide Mission Critical IT expertise to the DoD for the design of high-level systems and security architecture on the North American Aerospace Defense Command (NORAD) programs at the Cheyenne Mountain Complex and related facilities.
- Our scientists have developed advanced spatial and temporal statistical analysis models along with ML for predictive analysis and forecasting for NOAA's Climate Prediction Center (CPC) with the NOAA Supercomputer WCOSS delivering real-time products and information, promoting effective management of climate risk.
- Provide cloud architecture; development for ingest, archive and distribution of big data; software engineering; Agile DevSecOps; and science data management on The Earth Science Data and Information System Project, at the Goddard Space Flight Center (GSFC).
- Systems Engineering for the NASA planned SpaceX launch and flights to the moon and Mars on the Engineering Services and Science Capability Augmentation (ESSCA) Program at Marshall Space Flight Center (MSFC), with expert insight into valve design and thermodynamics in rocket technologies and propulsion systems.
- Facilitated automation and orchestration of an IT infrastructure for the Missile Defense Agency (MDA) Space Enterprise Architecture (MDSEA) along with application maturation, integration, and deployment of VMware technologies.
- System Administration and Data Management for ingest, dissemination, security and library archiving, moving holdings to the Cloud, with real-time daily feed of 6TB+/day and 15PB+ archived in 150+ data families at NOAA.
- Artificial Intelligence and Machine Learning for data analysis on the Kessel Run Enterprise Program. Specializing in Enterprise Data Science Services, Data Management, Data Visualization, Data Optimization, and Reinforcement Learning resulting in effective decision making and improved operations.
- Integration of science algorithms for The Center for Satellite Applications and Research (STAR) through data access protocols and providing data analysis and visualization.
- INNOVIM designed, built, and maintains NASA's Ice, Cloud and Land Elevation ground system to provide spacecraft command and control, instrument support, and next gen science data products to the global climate community. Provide Systems Administration expertise for the ICESat-2, maintaining systems, and receiving and generating a terabyte of spacecraft and science data per day.
- Developed an in-house Research and Design ETL pipeline used to aggregate data sources and run analysis using trained neural networks to create value-added data products made available to software developers, data scientists, and other users.
- Provide Mission Planning; Systems Development; Software Engineering for Science Data and Application Development; and Multimedia Production and Public Outreach to the Science and Exploration Directorate for the NASA GSFC's Space and Earth Science Data Analysis (SESDA) Program.