



High Performance Computing

CAPABILITY OVERVIEW

ASRC Federal delivers emerging and specialized technologies and services to meet the challenges of managing extremely large data sets and highly intensive computing requirements. Our customers benefit from the leadership and expertise of our visualization and high-performance computing experts who have extensive government and commercial experience.

The bigger the mission, the bigger the processing capability you need. We have established experience with supercomputers and parallel processing techniques to help you leverage any data set no matter how large or complex. Coupled with a service delivery framework that ensures high performance and reliability in the most specialized, dynamic and demanding technical environments, we provide timely, cost-effective and innovative High Performance Computing (HPC) services in support of our customers' missions.

PROGRAM SPOTLIGHT

Bringing Data to Life for NASA Ames Research Center

ASRC Federal's HPC team supports NASA's mission by enabling high fidelity modeling and simulation, data analysis and visualization, network operations and emerging computing technologies evaluation. The ASRC Federal team built an HPC-based data center that processes dozens of petabytes of data while using 91 percent less electricity and 94 percent less water for cooling. Information processed by the data center is visualized on a 15' X 40' multimonitor display that brings data from researchers around the world to life in near-real time.

AREAS OF EXPERIENCE

Data center and network operations

We improve productivity and allow your scientists and engineers to focus on work, not administration. We provide peace-of-mind that technical challenges will be addressed responsively to achieve mission critical results.

Big Data Analytics and Visualization

Our engineers create insightful graphics and visualizations that help audiences process information more quickly. We also isolate patterns and find answers without overfitting data through specialized big data analytics methods.

Information Security

We use industry-standard security practices to protect your data. Encrypted code repositories, user authentication, role-based access controls, hardened Docker containers: if it adds security, it's either in our pipeline already, or something we can add.

Modeling and Simulation

Our simulation platforms integrate state of the art technologies to provide complex, multiphysics solutions. With advanced processing and learning capabilities, our models can be trained faster and more effectively than traditional models.

Advanced Computing Research

Our team advances your research and development processes so you can innovate and create knowledge more quickly. With faster computing, you can bring solutions to market more quickly.

Application Development and Management

If your applications aren't optimized for HPC, you're missing out on performance. Our team will ensure your applications run as smoothly and efficiently as possible on your HPC system.

KEY CUSTOMERS



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ABOUT US

ASRC Federal's family of companies deliver successful mission outcomes and elevated performance for federal civilian, defense and intelligence agencies while building an enduring enterprise focused on customers, employees, and shareholders.

ASRC Federal offers broad and highly technical expertise in digital operations and IT modernization, software, applications and analytics, engineering solutions, professional services, and infrastructure operations.

As a wholly owned subsidiary of Arctic Slope Regional Corporation, an Alaska Native Corporation, we are inspired by the Iñupiat culture. We embrace **stewardship** and the idea of using every resource effectively; **teamwork** when striving to achieve goals and building a collaborative environment; **integrity** in adhering to high moral principles and professional standards; **high performance** in striving to deliver superior business results and exceptional customer value; and **citizenship** by taking care of our employees, shareholders, and the communities where we work and live.

MARKETS WE SERVE



Space



Defense & Intel



Civilian



National Security



Health

HOW TO GET TO US / CONTRACT VEHICLES

- + Our companies' portfolio of GSA schedules, GWACS and agency-specific contract vehicles enables our customers to procure professional services and technology solutions tailored to their requirements, using a streamlined acquisition approach. Our experienced GWAC Program Management Office (PMO) provides collaborative support and leadership throughout the contract lifecycle.
- + To view our full list of contract vehicles, please visit: www.asrcfederal.com/contract-vehicles