

EXPERIENCE MAKES THE DIFFERENCE

High Performance Computing Center of Excellence

CSC

As organizations set their sights to drive the areas of engineering, scientific modeling, R&D, analytics and data storage forward, high performance computing becomes an essential element of their success. A tailored solution from the HPC CoE team can result in new levels of innovation and insight for your business. Whether you are new to HPC or are looking to grow or maintain your facility, CSC is with you every step of the way. We are ready to show you that in HPC, experience really does make the difference.



Experience through Innovation: The HPC team has implemented many unique solutions including: integration of compute racks into a live production system for NASA's Advanced Supercomputing (NAS) Division; rapid integration of compute racks into NASA's Pleiades super computer, currently ranked 7th on the TOP500 list of the world's most powerful supercomputers; integration of SGI's P (parallel) DMF system for NOAA/GFDL, resulting in one of the largest archive systems in the world capable of storing 100 petabytes of data with recently passed acceptance of 99.27% uptime.

The Center of Excellence also offers customers access to innovation centers across the US, where customers, vendors and CSC staff can demonstrate solutions and evaluate products and methodologies.

Experience through Customer Satisfaction: The HPC CoE offers a wealth of service offerings, with fully rounded industry experience. Our commitment to our customers is demonstrated through years of experience working with clients such as Alabama Supercomputer Authority for over 17 years, Gulfstream for 6 years, NASA Ames and Goddard for 5 years each, P&G for 4 years, and most recently, we have expanded to serve NOAA as part of a 4 year base period contract.

Experience through Technology and Understanding: Since the foundation of the HPC CoE in 1999 our team has developed a diverse portfolio of experience with HPC components such as networks, storage, software and more. We currently operate systems with aggregate capability of over 1.9 petaflops and manage over 110.1 petabytes of data across all client sites. Our established vendor relationships allow our team a unique position as a trusted advisor often working with the vendors to offer technology roadmaps suggestions addressing HPC specific challenges.

Experience through Qualifications: Our versatile group of over 160 dedicated HPC professionals value proven tools and techniques. With CSC you will find PMI certified project and program managers, experts in ITIL Service Management, an efficient Major Systems Acquisitions process, commitment to continuing education programs for our staff, and CSC's Balanced Scorecard Process.

Our team also contributes to the HPC community by serving on several industry panels and committees such as SGIUG, SciNET, Open Fabric Alliance, several DOE board positions and more.

No matter the industry, when you need advice or have a job to do, you look to the companies, teams and people with proven experience and expertise in that area. This remains true in High Performance Computing (HPC). Let CSC show you that when it comes to HPC services and solutions, experience makes all the difference.



Experience You Can Access:

SOLUTIONS ARCHITECTURE CONSULTING

Allows you to leverage our broad experience to lower your risk, reduce transformation costs and increase value through scalable, secure, effective and resilient solutions.

OPERATIONS AND SUSTAINMENT

With customized and flexible levels of support our team can enhance existing systems with new technologies allowing you to focus on your core business while we ensure the integrity of your systems.

SYSTEMS INTEGRATION

Our team assists you in delivering a stable, interoperable HPC environment through the planning, test, and integration of resources and services from acceptance to production.

STAFF AUGMENTATION

The ability to leverage CSC's HPC experience and expertise helps our customers fill gaps in important, skill and experience of custom HPC technologies while providing considerable staffing flexibility to the customer.

TOTAL OUTSOURCING

A single point of responsibility for increased responsiveness, reduced contractual oversight and stream-lined service management allows the customer to focus on core business.

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