Computational Services and Resources

Computing and Data Resources

- 35,000 CPU Cores

- 580 GPU Accelerators

- 8 Large Memory Nodes

- 6PB research data storage platform for project-term data

- Dedicated virtual machines (VM) for specific research environments

- A FISMA high secure computing environment managed by a HIPAA Covered Entity, supporting computational research on sensitive data

Email RTSHelp@asu.edu to schedule a consultation with our staff.

Enabling Scientific Discovery

Advanced Computing at your Fingertips

Research Computing is dedicated to enabling research, accelerating discovery, and spurring innovation at Arizona State University through the application of advanced computational resources to grand challenges in science, engineering, and health.

Offering a team of systems professionals, architects, scientific software engineers, and research facilitators, ASU Research Computing provides technical expertise in all areas of computing, including parallel computing, big data analytics, scientific visualization, high-speed networking, and cybersecurity.

Proposal Support

Customized proposal support is available to all researchers including data management plans, facilities statements, letters of support, and hardware quotes. Contact us for a personal consultation at RTSHelp@asu.edu.

Training and Workshops

Annually, Research Computing offers more than a dozen technical workshops geared toward every level of user – from beginner to intermediate – including an Introduction to GPU training, a four-part Python series, and an overview of managing large data with Globus.

Software

ASU Research Computing supports over 1,200 software modules representing over 500 applications, including over 130 Python environments. Popular software applications include:

- MATLAB—including the Advanpix multiprecision computing toolbox and other toolboxes
- Python—and Juypter interface— including tensorflow, numpy, scipy and pandas
- R—and RStudio interface—including many packages such as tidyverse and bioinformatics
- SAS
- Stata
- Domain-specific packages, such as LAMMPS, WRF, GATK, Rosetta and Gromacs

Browser-Based Interactive Computing Environment Makes it Easy to Access our Resources

Accessing our computational resources has never been easier than with our interactive web portal.

By logging in through the web portal, using your ASURITE login and password, you can manage file systems, create and monitor jobs, view and manage interactive sessions, and so much more!

researchcomputing.asu.edu