Research Computing is dedicated to enabling research, accelerating discovery, and spurring innovation at Arizona State University (ASU) 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.

**Advanced Computing and Data Resources**
- 14,000 CPU cores
- 300 GPU accelerators
- 4PB research data storage platform for project-term data
- Dedicated virtual machines (VM) for specific research environments, and
- A FISMA high secure computing environment managed by a HIPAA Covered Entity, supporting computational research on sensitive data
- Full service descriptions and rates are available here

**Training and Workshops**
Each semester 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 and Google Drive. Hundreds of researchers participate each year. Workshop descriptions and registration information are available on the Research Computing documentation site.

**Software**
ASU Research Computing supports over 1200 software modules representing over 500 applications, including over 130 Python environments. Some of our most popular software applications include:
- Matlab
- Python—and Jupyter interface—including many modules, including tensorflow, numpy, scipy and pandas
- R—and RStudio interface—including many packages such as tidyverse and bioinformatics tools and other statistical packages such as sas and stata
- Domain-specific packages, such as LAMMPS, WRF, GATK, Rosetta and Gromacs

**Browser-Based Interactive Computing Environment**
Accessing Research Computing resources has never been easier than with our browser-based interactive computing environment powered by Open OnDemand. By logging in through Open OnDemand single sign-on, using your ASURITE login and password, you can manage file systems, create and monitor jobs, view and manage interactive sessions, and so much more!