High-powered computing resources for academic and industry research, education and innovation.

The Ohio Supercomputer Center accelerates discovery for Ohio's academic and commercial researchers with processing power exceeding 1,000 desktop computers available any time, any place. OSC turns days of computation into minutes, creating a competitive advantage for Ohio at a fraction of the cost of alternatives, all with expert consultation and secure storage.

Department of Higher Education

Ohio Technology Consortium

CLIENTS

9,725
INDIVIDUALS

2,345
ORGANIZATIONS

OHIO ORGS

65
ACADEMIC

38
INDUSTRY

24
NONPROFIT/GOV

OHIO HIGHER ED

6,750
ENROLLEES

209
COURSES

CORE SERVICE

99.6%
SERVICE AVAILABILITY

Data from Jan 2023–Dec 2023

CATALYZING DISCOVERY

Supercomputing services
The Ohio Supercomputer Center provides strategic capabilities in high performance computing (HPC), research data storage and scientific software expertise, enabling groundbreaking academic research and industrial innovation in Ohio.

Training and support
Utilizing OSC is simple for users of all skill levels through one-on-one consultations, web-based training classes, online how-to guides and support from client services.

Easy access
The Center's easy-to-use Open OnDemand web portal enables supercomputing from anywhere on any device. This industry-leading, open-source scientific gateway is installed at hundreds of prominent HPC centers around the world.

Flexibility, scalability, affordability
The supercomputers at OSC are engineered with flexibility and scalability in mind, built to deliver cutting-edge capabilities tailored to individual needs. Academic researchers generally utilize OSC with little or no cost thanks to state funding, while industry and commercial clients pay competitive rates.
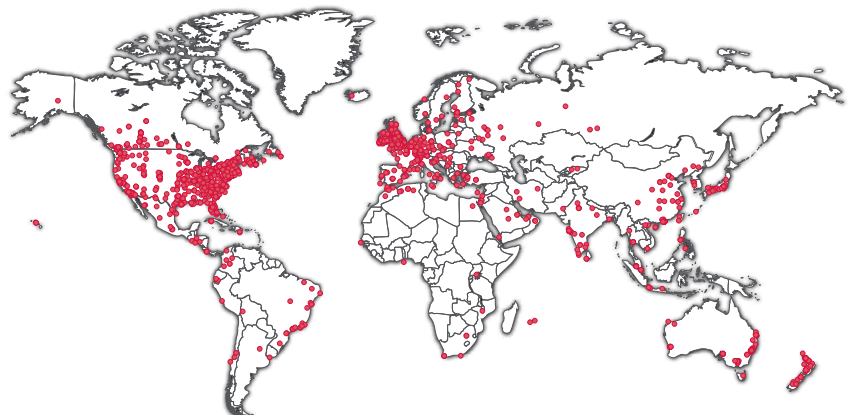
Education
OSC helps develop the next generation of innovators by providing virtual computer labs and free classroom usage to educators at all levels in Ohio, from grade school to grad school.

Any discipline, anywhere
A growing range of disciplines and client types rely on OSC, including researchers in analytics, machine learning and artificial intelligence.

SERVING OHIO & BEYOND

OSC provides state-of-the-art resources and services to academic researchers and industry innovators, both within the state of Ohio and beyond its borders. Clients develop new knowledge, products and technologies that benefit society.

SPOTLIGHT

Clients can access the supercomputing power of HPC centers with Open OnDemand installed at any time from any location.

Open OnDemand expands global HPC reach

OSC continues to advance Open OnDemand, its web-based client portal now used by hundreds of HPC centers around the globe. OSC released version 3.1 of Open OnDemand to offer clients easier ways to customize and manage their work. The National Science Foundation, which has awarded several grants to develop the portal, provided $1.5 million in funding to create a new governance organization to ensure the long-term sustainability of Open OnDemand.

Read more: **osc.edu/oodnsf23**

Alyssa Vandale, a student in ART 3110 Digital Art + Technology II, used Adobe Premiere, Illustrator, Photoshop, After Effects, Fresco, Audition and batch processing on Stable Diffusion to create a video. The above photo is a still image from the video.

University works with OSC on AI in arts courses

Ohio University faculty member Basil Masri Zada worked with OSC to host Stable Diffusion Automatic 1111, open-source generative artificial intelligence (AI) software, for digital arts and technology courses. Through the Center's OnDemand portal, students learned how the materials used to train AI can impact the software's behavior, as well as how they can incorporate AI tools into their creative work.

Read more: **osc.edu/digitalart**

SAVINGS

Data from Jan 2023–Dec 2023

$9M+

CLIENT ANNUAL SAVINGS

osc.edu/explore

CONTINUED GROWTH

By equipping innovators in academia and enterprise with cutting-edge technology, Ohio ensures its leadership role in the creation and dissemination of knowledge and the development of a workforce prepared for tomorrow's high-tech economy. As the pace of change accelerates, we are building an innovative path to a better and stronger Ohio.

LOOKING AHEAD

Our Campus Champions program helps us stay connected to the specific and evolving technical requirements of Ohio colleges and universities. In addition, with grants from the National Science Foundation, we are training more cyberinfrastructure professionals across the state and nation to use emerging artificial intelligence and machine learning technologies in HPC work.

OSC also is introducing HPC to new sectors of research and innovation in Ohio. We reach out to academic disciplines that traditionally have not used HPC but could benefit greatly from it. The Center also has a strong track record of engaging with the private sector to meet its specialized HPC needs. With our globally recognized Open OnDemand program, we are lowering the bar to entry and increasing the ease of HPC use for new clients.