



User Facilities at Argonne

Great facilities attract great minds to solve scientific problems

Argonne National Laboratory designs, builds and operates national scientific user facilities for the benefit of researchers from industry, academia and government laboratories. These one-of-a-kind facilities attract great minds from all over the nation to solve society's complex scientific problems. Argonne operates a number of national user facilities, including:

Advanced Photon Source

The APS is the Western Hemisphere's most powerful source of X-rays for research. More than 3,500 users from industry, academia and government laboratories around the world use the APS each year for research in materials science, chemistry, biology, physics, earth and planetary science, and environmental science.

Center for Nanoscale Materials

The CNM is one of five DOE Nanoscale Science Research Centers. Scientists from all over the nation use the CNM for basic research that will help drive the coming revolution in nanomaterials.

Argonne Tandem Linac Accelerator System

ATLAS is a world-renowned center for cutting-edge research in nuclear physics. The world's first superconducting linear accelerator for heavy ions, ATLAS attracts more than 150 physicists annually from around the world to conduct research on the forces that hold atomic nuclei together.

Electron Microscopy Center for Materials Research

The EMC for Materials Research develops and maintains unique capabilities for electron beam characterization and applies those capabilities to solve materials problems in three major areas: materials research, technique and instrumentation development, and operation as a national research facility.

Argonne Leadership Computing Facility

The ALCF provides the computational science community with a leading computing capability dedicated to breakthrough science and engineering. The U.S. Department of Energy selects major ALCF projects through the Innovative and Novel Computational Impact on Theory and Experiment (INCITE) program.



The Advanced Photon Source accelerates electrons to over 99% of the speed of light around a ring large enough to house a baseball stadium.

Atmospheric Radiation Measurement Climate Research Facility

ARM-CRF provides the world's most comprehensive observational capabilities for obtaining atmospheric data specifically for climate change research, serving nearly 5,000 registered users from 15 federal and state agencies, 375 universities and 67 countries. ACRF users provide critical information about cloud formation processes, water vapor and aerosols, and their influence of radiative transfer in the atmosphere.

Transportation Research and Analysis Computing Center

A high-performance computing and engineering analysis research facility, TRACC provides the transportation research and development community with a state-of-the-art massively parallel computer system, advanced scientific visualization capability, high-speed network connectivity and modern engineering analysis software.