Argonne NATIONAL LABORATORY

# User Facilities

## *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 the society's complex scientific problems.

Argonne operates a number of national user facilities, including:

- The **Advanced Photon Source** (APS) is the Western Hemisphere's most powerful source of X-rays for research. More than 3,000 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.

- The **Center for Nanoscale Materials** (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.

- The **Argonne Tandem-Linac Accelerator Facility** (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.

- The **Electron Microscopy Center** (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.

*Advanced Photon Source*

*Center for Nanoscale Materials*

- The **Argonne Leadership Computing Facility** (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.

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