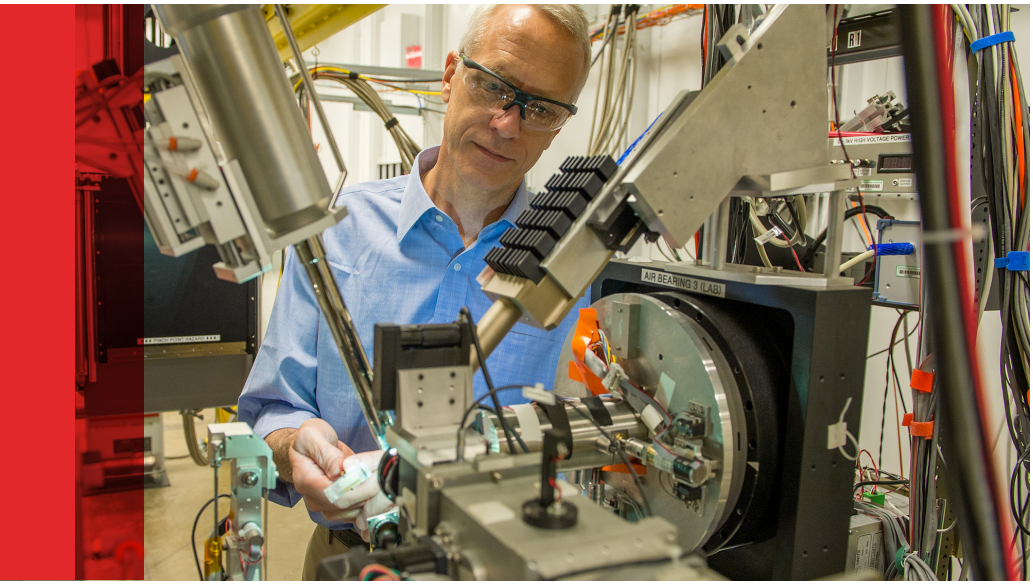
Argonne NATIONAL LABORATORY

USER FACILITIES AT ARGONNE

Exceptional tools for tackling tough scientific problems



Stanford University professor Brian Kobilka places a sample in the micro X-ray beam at the GM/CA beamline at the Advanced Photon Source. The micro X-ray beam was used to conduct nearly all of the X-ray research that earned him and Duke University Professor Robert Lefkowitz a 2012 Nobel Prize.

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.

ADVANCED PHOTON SOURCE

The Advanced Photon Source (APS) provides the nation's highest-brightness, hard X-rays. Attracting more than 5,000 users each year, the APS is ideally suited to explore the material structure, elemental distribution, and chemical, magnetic, and electronic states for a vast array of forefront problems in chemistry, materials science, condensed matter physics, and the life and environmental sciences.

CENTER FOR NANOSCALE MATERIALS

The Center for Nanoscale Materials (CNM) provides expertise, instrumentation, and infrastructure for interdisciplinary nanoscience and nanotechnology to generate scientific insights, create innovative materials, and contribute significantly to energy-related research and development programs. The center seeks to discover new materials, visualize events with high resolution as they occur, understand the physics and chemistry of energetic processes at the nanoscale, and manipulate nanoscale interactions to synthesize and fabricate useful, energy-efficient structures with new functionalities.

ARGONNE LEADERSHIP COMPUTING FACILITY

The Argonne Leadership Computing Facility (ALCF) is one of the two leadership computing facilities supported by the U.S. Department of Energy and provides the computational science community with a world-class computing capability dedicated to groundbreaking science and engineering. The ALCF staff provides expertise and assistance to support user projects to achieve top performance of applications and to maximize benefits from the use of computing resources.

ARGONNE TANDEM LINAC ACCELERATOR SYSTEM

The 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 350 physicists annually from around the world to conduct research on the forces that hold atomic nuclei together.

TRANSPORTATION RESEARCH AND ANALYSIS COMPUTING CENTER

A high-performance computing and engineering analysis research facility, the Transportation Research and Analysis Computing Center (TRACC) provides the transportation research and development community with state-of-the-art massively parallel computer systems, advanced scientific visualization capability, high-speed network connectivity and modern engineering analysis software.

CONTACT

Argonne National Laboratory
Information available at
www.anl.gov/user-facilities

U.S. DEPARTMENT OF ENERGY

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