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Specialized facilities are essential to the advancement of PNNL's sponsored research programs and LDRD-funded projects.

Unique facilities at PNNL, including dedicated laboratories for power grid operations, marine sciences, data analytics, and atmospheric sciences, equip researchers to take on some of the most challenging questions, and expand the frontiers of scientific understanding and technological possibility.

In addition to more than two dozen state-of-the-art facilities supporting the laboratory's missions in scientific discovery, energy resiliency, and national security, PNNL is the steward of two U.S. Department of Energy national scientific user facilities, ARM and EMSL, serving more than 2,000 researchers worldwide each year.

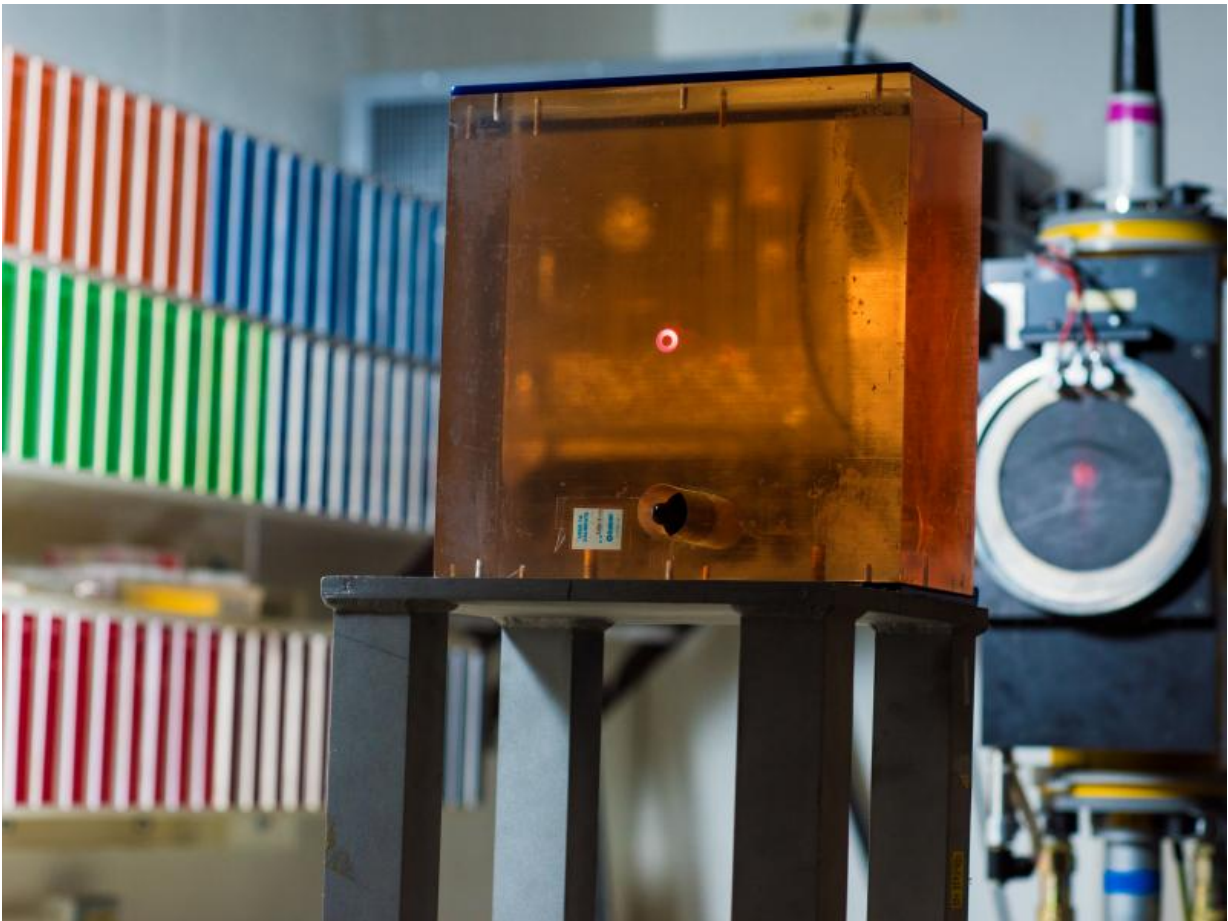
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Expertise in the 318 Building—the Radiological Exposures and Metrology (REM) Laboratory—supports health physics, radiation dosimetry, irradiation research design, Monte Carlo modeling, radiation biology, engineering, and radiography.

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Advanced Battery Facility

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The Advanced Battery Facility was built to bridge the gap between fundamental battery research and commercial-scale battery development. The facility provides an ideal system for exploring a broad range of chemistries and materials.

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Advanced Building Controls Laboratory

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This laboratory provides a testing resource for HVAC units and systems.

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Applied Process Engineering Laboratory

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The Applied Process Engineering Laboratory (APEL) is a business startup center designed for innovators in engineering, manufacturing, and technology.

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Applied Subsurface Science and Characterization Laboratory

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State-of-the-art instrumentation and analytical techniques enable characterization of the critical properties of sediment and rock that control the subsurface movement and reactions of chemicals, water, and gases.

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Aquatic Research Laboratory

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At the Aquatic Research Laboratory, PNNL scientists explore solutions for our nation's growing need for clean, renewable energy. Projects are focused on monitoring and predicting the impacts of hydropower development and operation on water.

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Aquatics Research Laboratories at PNNL-Sequim

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The Aquatic Research Laboratories at the Marine and Coastal Research Laboratory at PNNL-Sequim enables research on chemical, biological, or physical components and processes under controlled conditions.

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Atmospheric Radiation Measurement User Facility

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The Atmospheric Radiation Measurement (ARM) user facility is a key contributor to national and international atmospheric and climate research efforts.

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Battery Reliability Test Laboratory

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The Battery Reliability Test Laboratory at PNNL is a world class battery testing facility that has been established to accelerate the development of grid energy storage technologies that will help modernize the power grid.

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Bio-Acoustics and Flow Laboratory

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At PNNL's Bio-Acoustics and Flow Laboratory, scientists explore ways to integrate environmental protection for fish passage and survival in hydropower operations.

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Biofouling/Biocorrosion Mesocosms at PNNL-Sequim

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Researchers have specialized facilities at the Marine and Coastal Research Laboratory at PNNL-Sequim for studying biofouling and biocorrosion.

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Bioproducts, Sciences, and Engineering Laboratory

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Located at Washington State University Tri-Cities, this facility is devoted to the science and engineering of deriving energy from agricultural and forest residues, municipal and industrial waste streams, and other renewable resources.

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Biotechnology Laboratories at PNNL-Sequim

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The biotechnology laboratories at PNNL-Sequim are designed to facilitate research across in silico, bench, mesocosm, and ecosystem scales.

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Building Operations Control Center

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The Building Operations Control Center enables researchers and operations staff to connect to intelligent infrastructure from the smart grid, allowing access to extensive data from PNNL campus buildings, systems, and components.

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Center for Molecular Electrocatalysis

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PNNL is the lead institution for the Center for Molecular Electrocatalysis (CME), an EFRC that seeks to establish the fundamental principles needed for efficient interconversion of electrical energy and chemical bonds.

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Center for the Science of Synthesis Across Scales

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PNNL has partnered with University of Washington (UW) to co-lead the Center for the Science of Synthesis Across Scales, an EFRC based at UW.

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Chem/Bio Isolation Laboratories at PNNL-Sequim

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PNNL-Sequim has laboratories that are physically-isolated and individually-accessed spaces, which enable research using organisms, materials, or equipment that require additional levels of protection

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Climate-Simulated Algae Ponds at PNNL-Sequim

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PNNL-Sequim has indoor climate-simulation raceway ponds for microalgae culture that are monitored under carefully controlled conditions.

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Computational and Applied Geophysical and Geomechanics Laboratory <https://www.pnnl.gov/computational-and-applied-geophysical-and-geomechanics-laboratory>

The Computational and Applied Geophysical and Geomechanics Laboratory enables subsurface fluid dynamics modeling, stability prediction of perforation tunnels, simulation test design, fluid removal or injection monitoring, and more.

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