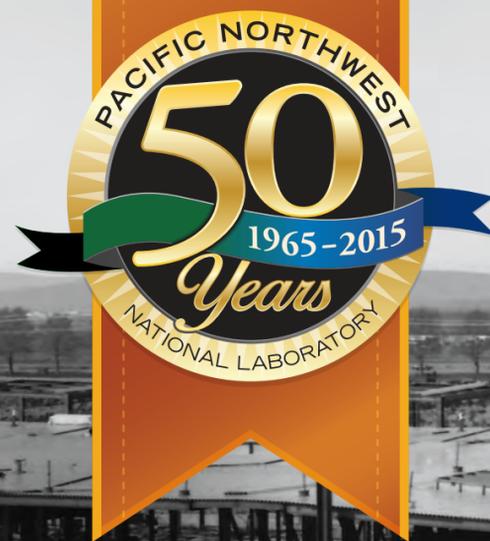
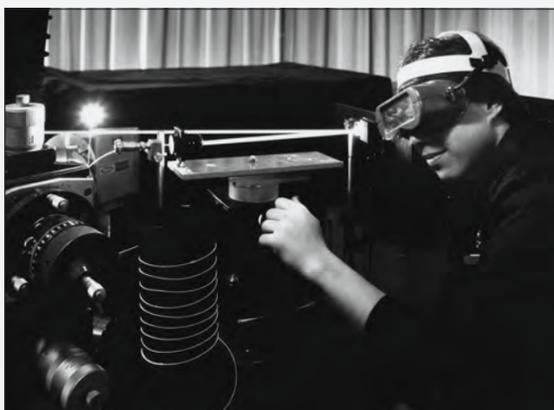


DISCOVERY IN ACTION



Construction of the first phase of the Pacific Northwest National Laboratory campus in north Richland began in 1965, the year the lab was created. Since then, interdisciplinary teams at PNNL have addressed many of America's most pressing issues in energy, the environment, and national security through innovations in basic and applied science.

PNNL celebrates golden anniversary



From its beginning in 1965, PNNL has trained the next generation of scientists and engineers. In this 1983 photo, a student works with lasers as part of a materials research project.



In 1988, engineers at PNNL developed "Manny," the robotic mannequin—that was so humanlike it even sweated—for the U.S. Army to test protective clothing for extreme use conditions.

PACIFIC NORTHWEST NATIONAL LABORATORY

www.pnnl.gov

Fifty years ago, one of the nation's leading research and development institutions began to take shape right here in the Tri-Cities. Pacific Northwest Laboratory was established by the Atomic Energy Commission and Battelle was chosen to operate it for the benefit of the nation and the world.

Today we're known as Pacific Northwest National Laboratory and are one of ten national laboratories overseen by the Department of Energy's Office of Science. And it's still operated by Battelle.

Through this enduring partnership—and by working closely with our sponsors and collaborators—we build upon our legacy of discovering science and solutions that improve the lives of Tri-Citians

and people around the world.

As PNNL celebrates five decades of discovery, we invite the community in which we live and work to share in the pride of our accomplishments and our vision for the future. After all, most of our 4,300 employees call the Tri-Cities home—and as our neighbors, you've played a role in what has been achieved as well. And, for that we thank you.

With your support, we have and will continue to push the frontiers of science and technology in areas that inspire and enable the world to live prosperously, safely, and securely—as we address many of America's most pressing issues in energy, the environment, and national security.

Throughout our anniversary year, we will be showcasing some of the scientific challenges we've tackled, what we've learned along the way, and what

we believe is vital to discover next.

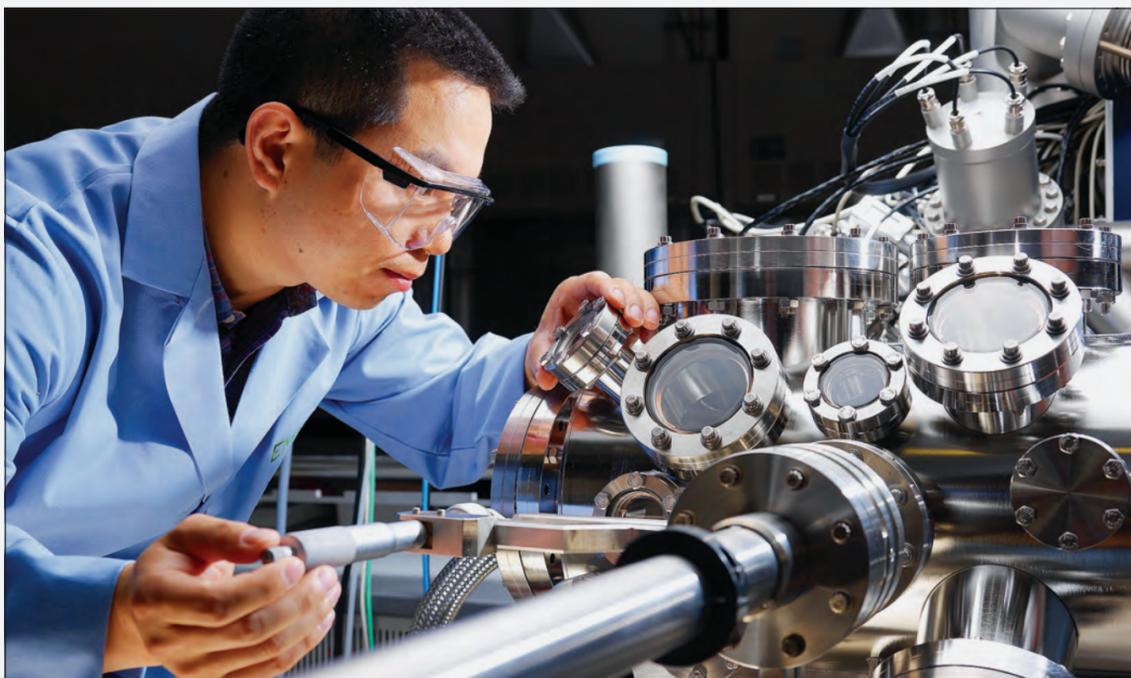
We'll share stories about how our scientists—your neighbors—invented the technology that led to development of compact discs, revolutionizing the way we play music and store data; of how your neighbors discovered the means of using acoustic holography to see inside the human body without needing to operate, and that using millimeter waves can detect weapons under terrorists' clothing before they board a plane—saving and extending lives; and how our research resulted in the means to track salmon so dams could be designed to be more fish-friendly, creating a sustainable balance between nature and hydropower.

Each month over the next year, we will share stories like these. We will highlight

PNNL's research and development and how it provides fundamental understanding and new solutions that help:

- Strengthen U.S. scientific foundations for innovation,
- Increase U.S. energy capacity and reduce dependence on imported oil,
- Prevent and counter terrorism and the proliferation of weapons of mass destruction,
- Reduce the environmental effects of human activities and create sustainable systems.

Some of the things we're able to do now seemed unimaginable to most of the world when PNNL opened its doors in 1965. But, that's what we do. Right now, with your support, we're imagining the next 50 years and beyond so when we get there, discovery will already be in action.



Today, scientists at PNNL study how to prolong the life of batteries, develop new fuel technologies, understand how life behaves at the molecular level, and more—by developing and using award-winning instruments such as those at the Environmental Molecular Sciences Laboratory, located on the PNNL Richland campus.

Owned by the U.S. Department of Energy; operated by Battelle; and supported by academic, industrial, and governmental collaborators; Pacific Northwest National Laboratory has an annual budget of about \$1 billion and 4,300 staff members, making Battelle the Tri-Cities' largest employer.