The National Laboratory system
PNNL is mission-driven

We
TRANSFORM THE WORLD through courageous DISCOVERY and INNOVATION.

► Operated by Battelle since 1965
► Unique S&T capabilities
► Mission-driven collaborations with government, industry and academia
What PNNL does and why it does it

PNNL science and technology inspires and enables the world to live PROSPEROUSLY, SAFELY, and SECURELY.
Delivering simultaneous excellence

- Delivering innovative solutions to complex challenges
- Efficient operations and the protection of employees, the public, and the environment
- Being a trusted and valued community and regional asset
Excellence in Science & Technology

- 56 AAAS Fellows
- 2,153 U.S. & foreign patents since 1965
- Attracting top scientific talent
- Award winning work
- Top 1% in publications and citations
  - Biology and Biochemistry
  - Chemistry
  - Clinical Medicine
  - Engineering
  - Environment and Ecology
  - Geosciences
  - Materials Science
  - Microbiology
  - Molecular Biology & Genetics
  - Physics
PNNL at a glance

FY2012 Snapshot

► $1.0B operating budget
► About 4,500 scientists, engineers and non-technical staff
► 1,041 peer-reviewed papers
► 44 U.S. and foreign patents
► 3 R&D 100 and FLC Awards
Lab-Level Objectives distinguish PNNL

Chemical Imaging of Dynamic Systems

Chemical Conversions for Sustainable Energy

Efficient and Secure Power Grid

Disruption of Illicit Nuclear Trafficking

Enhance Staff Productivity and the Research Experience
Powerful combination of core capabilities

- World-class technical staff
- State-of-the-art equipment
- Mission-ready facilities
Expanding campus, growing capabilities
EMSL, the Environmental Molecular Sciences Laboratory

- National scientific user facility
- Sponsored by DOE Office of Biological and Environmental Research
- World-class research; integrated experimental & computational resources
- Key capabilities:
  - Supercomputer
  - Mass spectrometry
  - NMR spectrometry
  - Surface science tools
Discovery in processes for bio-based product manufacture
- High-pressure catalytic reactor rooms
- Development and engineering of fungal fermentations
- Synthesis and preparation of catalysts and feedstocks
- Catalysis research laboratory
- Analytical chemistry
Biological Sciences Facility and
Computational Sciences Facility

► Biological, computational and subsurface science
► Bio-energy, carbon sequestration and homeland security
► Biological systems for renewable bioenergy and carbon sequestration
► National security and threat detection
► Data-intensive and high-performance computing
Physical Sciences Facility

- Materials science & technology
- Ultra-trace and radiation detection
- Shallow underground laboratory
- Critical capabilities:
  - Ultratrace detection of radio nuclides
  - Irradiated materials S&T
  - Fundamental and interfacial radiochemistry
Other key facilities

- Electricity Infrastructure Operations Center
- Radiochemical Process Laboratory
- Atmospheric Measurements Laboratory
- Marine Sciences Laboratory
- Applied Process Engineering Laboratory
- Center for Global Security
PNNL is committed to its community

- Region’s largest employer
- $24 million invested in the community
- 160,000 hours volunteered by staff over past 10 years
- Focus: A stronger community
Excellence in community service

- Advancing STEM education
- Building understanding of science to broader society
- A more diversified, innovation- and technology-based economy
Developing scientific leaders

► Institutional partnerships
► Joint appointments
► Mentor Protégé Program
► Postdoc and intern programs

www.pnnl.gov/about/institutional_partnerships
Commercializing science and technology

► 150+ companies trace origins to PNNL
► Creating a more diversified, technology-based economy
► Working with partners through:
  ▪ Collaborative research
  ▪ Technology transfer
  ▪ Programs and resources to assist technology-based businesses

http://www.pnnl.gov/business/
Discovery, innovation and impact

- Solving the nation’s critical challenges
- Delivering transformational science and technology
- Partnering for global impact
- Accelerating the rate of innovation
Mission
We transform the world through courageous discovery and innovation.

Vision
PNNL science and technology inspires and enables the world to live prosperously, safely and securely.
Thank You

Name
Title
Phone
email@pnnl.gov