Pacific Northwest National Laboratory and its Partnerships in the Community

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PNNL: a national treasure in the Northwest

We deliver solutions to America’s most intractable problems in energy, national security and the environment. Through the power of our interdisciplinary teams, we advance science and technology to make the world a better place.

- Proudly operated by Battelle since 1965
- More than 4,200 staff
- Unique capabilities
- Mission-driven collaborations with government, industry and universities
Our customers count on our expertise to help them define the future

- $1.1 billion in 2008 sales
- 61% of annual sales is in support of DOE missions
  - Fundamental Science
  - Energy
  - Environment
  - National Security
- More than 50% homeland and national security
- Less than 15% Hanford
We are advancing science and technology to make the world a better place

<table>
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<tr>
<th>Mission Outcome</th>
<th>Examples</th>
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<td>Strengthen U.S. scientific foundations for innovation</td>
<td>Controlling molecular processes for energy and environmental issues atom-by-atom</td>
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<td>Increase U.S. energy capacity and reduce dependence on imported oil</td>
<td>Converting hydrocarbons to clean fuels and chemicals</td>
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<td>Prevent and counter acts of terrorism and the proliferation of weapons of mass destruction</td>
<td>Detecting nuclear and Radiological materials at borders and ports</td>
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<td>Reduce environmental effects of human activity and create sustainable systems</td>
<td>Predicting and mitigating the impact of energy development and climate change</td>
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Scientific innovation is delivered through the power of interdisciplinary teams

- Chemical, Biological, Radiological, Nuclear and Explosives Surety
- Environmental Science and Technology
- Energy Science and Technology
- Nuclear Science and Legacy Waste
- Industrial Processes and Products
- Fundamental and Computational Sciences
- Global Security Implementation
- Integrated Systems Solutions
- Information Analysis Solutions
Discoveries that change lives

- 74 R&D 100 Awards – *The Oscars of Invention*
- 67 Federal Laboratory Consortium (FLC) Awards for Excellence in Technology Transfer
- 1 Christopher Columbus Fellowship Foundation Award
- 6 E.O. Lawrence Awards
- 3 Presidential Early Career Awards
- 1,664 U.S. and Foreign Patents (33 Domestic / 30 Foreign in 2008)
PNNL innovations with everyday impact

- Holography
- Optical digital recording
- Implant coating
- Chevy Malibu Maxx lift gate
- Improved spark plugs
PNNL: a partner in education, research and economic development

Science Education

University Partnerships

Economic Development
Our strength is in our roots

- Battelle contributed more than $1,097,000 in corporate funds to area philanthropic and civic organizations in fiscal year 2007.
- Family tree shows more than 130 companies that use technology or leadership originating from PNNL.

In 2007, staff from PNNL donated over 20,000 hours to community projects via the Team Battelle program.
Deploying technologies through economic development strategies

- Expand existing businesses
- Start-up new businesses
- Attract outside businesses

Intellectual Assets

Business climate | Quality of life

Proudly Operated by Battelle Since 1965
Steps in partnerships between communities and laboratories

- Lab staff on local councils, commissions, committees, boards
- Common members among various boards, for consistency
- Better community understanding of the Lab and what it offers
What do laboratories need from host communities?

- Livable, desirable community (safe, clean, engaging, etc.)
- Good school systems (K-20)
- Coordinated advocacy for the Lab at local, state, and federal levels
- Entrepreneurial infrastructure/$$ sources
- Technology receptors