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# Fact Sheet

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## Biological Sciences Facility and Computational Sciences Facility

Two facilities recently dedicated at Pacific Northwest National Laboratory will enable discoveries in biological, computational and subsurface science as well as developments in bio-energy, carbon sequestration and homeland security. The \$77-million **Biological Sciences Facility** and **Computational Sciences Facility** represent the first new buildings on PNNL's campus since 1997. Combined, the two facilities house about 300 staff who support PNNL's research in biological systems science and data-intensive computing for the Department of Energy, the Department of Homeland Security, the National Institutes of Health and others.

The BSF and CSF are partially replacing laboratory and office space PNNL has been using on the south end of the nearby Hanford Site. That space must be vacated by 2011 to make way for the federal government's environmental cleanup activities at Hanford.

The new buildings were created through a unique public-private partnership. They are located on land owned by Battelle on the northwest corner of the PNNL campus. Battelle operates PNNL for the Department of Energy. Battelle is leasing the land to the Cowperwood Company, a real estate development firm headquartered in New York City, under a long-term lease. Cowperwood privately financed construction of the new buildings, and is leasing the BSF and CSF to Battelle for up to 35 years. Once the lease expires, Battelle will own the buildings and as operator of PNNL will lease them to DOE rent-free.

The BSF and CSF are part of a larger effort to replace PNNL laboratory and office space located on the Hanford Site. Throughout 2010, about 450 staff who support national security and energy research missions will move from



## FACILITY STATISTICS

Buildings' Total Square Feet	145,000 gross square feet
Construction budget invested locally and regionally	\$32 million invested locally \$10 million invested regionally
Amenities incorporated during construction within GMP	\$4.4 million; environmental chambers, cold rooms, showcase lab glass wall, classified conference room enhancements, bio-safety cabinets, water purifiers, additional casework, cooling tower, upgraded to higher efficiency chillers, raised computer floors, hardwall cubicles, Uninterruptable Power Supply and cooling for computer labs, finish lighting for 10,000 sq.ft. high-performance computing lab and backup power and cooling for 25% of high-performance computing lab.
Contracting Approach	15 months design/build period upon approval of the Business Case.
Safety Record	380,000 man-hours without a lost work day
Design and constructed as a LEED (Leadership in Energy and Environmental Design) Gold Laboratory	1 of only 10 LEED <b>Gold</b> laboratory buildings in the country
Building Energy Efficiency	30% Energy Cost Savings and 35% Energy Savings
Building Ground Source Cooling	Contributes 25% of the energy savings
CSF features 10,000 square feet of 3-foot raised high-performance computer space	Includes 25% of the cooling/power available at building opening
CSF features: 2 - 1 foot raised computer floor high performance computing labs; Visualization Laboratory	<ul style="list-style-type: none"> <li>• Includes 75% of the cooling/power available at building opening</li> <li>• Visualization Lab features a 7' x 16' high-quality screen</li> </ul>
BSF features 35 BSL 1 fully equipped laboratories	Includes casework, hoods, biosafety cabinets
BSF features 3 BSL 2 fully equipped laboratories	Includes casework, hoods, biosafety cabinets, incubators, cold rooms, environmental rooms, and access control
Common glass atrium lobby	Features: <ol style="list-style-type: none"> <li>1. Sustainable bamboo wall covering</li> <li>2. LEED educational monitor</li> <li>3. Five monitors highlighting world-class research in building</li> </ol>
Lobby Area – Public Access	Features: <ol style="list-style-type: none"> <li>1. Eight various size conference rooms available for public access</li> <li>2. Two break rooms (includes eating area, refrigerators, microwaves, ice machines, vending machines)</li> <li>3. Space provided to third-party vendor for deli and coffee services</li> </ol>
BSF features two large light wells in office area	Enhances office and cubicle area by provide daylight throughout

the 300 Area into the new, 200,000-square-foot Physical Sciences Facility at the north end of the PNNL campus. In addition, four buildings on the Hanford Site utilized by PNNL are undergoing life-extension improvements that will allow PNNL staff to continue research and development activities there for another 20 years. Funding for the PSF and some of the 300 Area building improvements totals \$224 million and is being provided by DOE's Office of Science, the National Nuclear Security Administration and the Department of Homeland Security, all which sponsor research at PNNL.

## ABOUT PNNL

Pacific Northwest National Laboratory is a Department of Energy Office of Science national laboratory where interdisciplinary teams advance science and technology and deliver solutions to America's most intractable problems in energy, national security and the environment. PNNL employs 4,650 staff and has been managed by Ohio-based Battelle since the lab's inception in 1965.



**Pacific Northwest**  
NATIONAL LABORATORY

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