



WSU & PNNL BSEL

*Opening the door
for new opportunities
in Washington state*

*Bioproducts, Sciences, &
Engineering Laboratory*

The Bioproducts, Sciences, and Engineering Laboratory, or BSEL, is a \$24-million research center in which researchers will develop technology to convert biomass, including low-value agricultural residues, into fuels and value-added chemicals like plastics, solvents and fibers. The facility will provide much needed classrooms and laboratories for science and engineering education and additional research areas.

A joint effort between Washington State University and Pacific Northwest National Laboratory, BSEL is located on the WSU Tri-Cities campus in Richland, Washington.

Benefits to Washington State

Research and facilities at BSEL will

- boost Washington state economy by expanding agricultural markets and generating jobs and investment opportunities
- develop technology for potential spin-offs to private industry, creating new businesses and further enhancing Washington's economy
- provide WSU students a comprehensive educational experience aligned with industry needs
- contribute to creating a more sustainable economy and environment in Washington state
- be a key ingredient as WSU Tri-Cities expands into a four-year university.

Physical Description

BSEL is a 57,000-square-foot facility containing

- teaching laboratories
- advanced biological and chemical research laboratories for bioproducts and selected science and engineering research areas
- engineering development laboratory to provide industry-relevant data
- classrooms and offices
- \$9 million in equipment provided by PNNL that will be available to WSU faculty and students.

Unique Features

The BSEL facility will contain unique equipment and facilities that foster inquiry-based learning, including

- co-located, interdisciplinary research and teaching laboratories
- state-of-the-art analytical, chemical and biological research instrumentation
- integrated, advanced conversion and processing technologies for process development.

Funding

BSEL, a \$24-million investment, is funded by Washington State University's higher education construction budget and a 20-year lease agreement between WSU and Battelle, which operates PNNL for the U.S. Department of Energy.



"This particular laboratory, I believe, is the wisest investment we can make for the future of the Tri-Cities and for the entire state."
—Governor Chris Gregoire

