OPPORTUNITIES
Events current at time of publication. Have a virtual resource or event to share? Email us!

- November 1–30 – Critical Infrastructure Security and Resilience Month
- November 6–12 – International Association of Emergency Managers Conference and EMEX
- November 12–13 – Pacific NorthWest Economic Region Trade and Infrastructure Forum
- February 22–27 – IAEM-USA Region 6 Symposium
- April 26–28 – ARPA-E Energy Innovation Summit
- July 25-29 – Pacific NorthWest Economic Region Annual Summit

CONTACT
Want to know more? Visit us at pnnl.gov/projects/nwrtc. Contact the NWRTC with questions and comments at nwrtc@pnnl.gov.

AROUND THE REGION IN HOMELAND SECURITY

The Northwest Regional Technology Center (NWRTC) is a virtual resource center, operated by Pacific Northwest National Laboratory (PNNL), that supports regional preparedness, resilience, response, and recovery. The center enables homeland security solutions for emergency responder communities and federal, state, and local stakeholders in the Northwest.

GENESIS MISSION DRAWS ON PNNL EXPERTISE FOR SI-DRIVEN PROJECTS



Researchers at PNNL are bringing their expertise in grid operations, geosciences, and computing to five new Genesis Mission-funded projects that use Super Intelligence (SI) to meet these challenges.

The five projects aim to tap new energy sources deep underground and understand how fluids flow through those subsurface rocks, integrate how uncertainty about weather impacts grid operations planning, allow scientists to plan complex physics experiments using plain-language instructions, and create a reusable framework that uses SI-coding agents to keep computers running smoothly.

In each case, SI is not replacing scientists. It is becoming a powerful partner that helps them work faster and make better decisions. For example, a team led by MIT, with PNNL's Nathalie Voisin, is using SI to help grid planners prepare for many possible futures. The researchers are training SI models to produce realistic weather scenarios about 1,000 times faster than currently possible. Other parts of the project include generating electricity demand scenarios and economic forecasts. In the past, this many scenarios would have overwhelmed available computing power. But SI and smart model tailoring make the plan tractable. The approach will be tested on grids in New England, which relies heavily on natural gas, and in Texas, where wind, solar, and demand are all growing fast.

To learn more, see the PNNL feature story.

SHARING ONE HEALTH RESEARCH GLOBALLY



With things like hantavirus, Ebola, and bird flu making headlines, researchers at PNNL are sharing their work grounded in One Health (OH), which connects human, animal, plant, and environmental data to improve situational awareness, early warning, and decision-making. Most recently, PNNL OH leader Lauren Charles' work was highlighted in "From Signals to Decisions: Five Lessons for Operationalizing One Health Biosurveillance," published in the November 2026 issue of Homeland Security Today's *Pracademic Affairs* journal.

Additionally, the PNNL OH team has been collaborating across the scientific community and sharing their research with audiences around the world, including publications in Elsevier *One Health*, *The Journal of Infectious Diseases*, and the Group on Earth Observations, and presenting at the 9th World One Health Congress and the Brown University Pandemics and Society Webinar Series. You can read more about PNNL's latest OH work in the PNNL article or visit https://www.pnnl.gov/projects/one-health to learn more.

INTERACTIVE MAP EXPLORES WILDFIRE-ENERGY POLICY

Wildfires are rewriting the rules of America's electric utilities. Grids now have to survive—and avoid igniting—wildfires, forcing states into high-stakes conversations about liability, planning, cost, and how utilities should manage this risk. To make that information more accessible, PNNL has teamed up with the Smart Electric Power Alliance on a new interactive map that provides a nationwide view of state-by-state wildfire legislation.



The Wildfire Regulation and Policy Tracker shows what topics are prioritized over time, which states are pursuing which wildfire mitigation strategies, which measures passed or failed, and where an agency has stepped in to create a comparable statewide requirement.

See the PNNL news release or visit wildfire.pnnl.gov to learn more about PNNL's wildfire research, tools, and resources.

FIRST-OF-ITS-KIND AUTONOMOUS LAB FOR BIOSCIENCES



PNNL has broken ground on a new research facility that will be one of the world's largest and most fully autonomous biosciences laboratories, and the first that will be available to the broader scientific community.

The 30,800-square-foot Microbial Molecular Phenotyping Capability is an expansion of the Environmental Molecular Sciences Laboratory, a Department of Energy national scientific user facility located on the PNNL-Richland campus. It has been designed to transform how we could put microbes to work for American manufacturing competitiveness, human health, adversary threat detection and response, food security, and next-generation energy systems.

See the PNNL news release to learn more.

For more information, contact Director Ann Lesperance (ann.lesperance@pnnl.gov | (206) 528-3223) or Deputy Director Rachel Bartholomew (rachel.bartholomew@pnnl.gov | (509) 371-6906) or visit pnnl.gov/projects/nwrtc.

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