



PNNL Overview

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PNNL is operated by Battelle for the U.S. Department of Energy

PNNL-SA-203848

Overview

- One of 17 Department of Energy National Laboratories
- Managed by Battelle for DOE
- Main campus in Richland; marine coastal lab in Sequim; offices in Seattle, Portland, and College Park, MD



PNNL is **one of DOE's most diversified** national laboratories



\$1.5B Spending



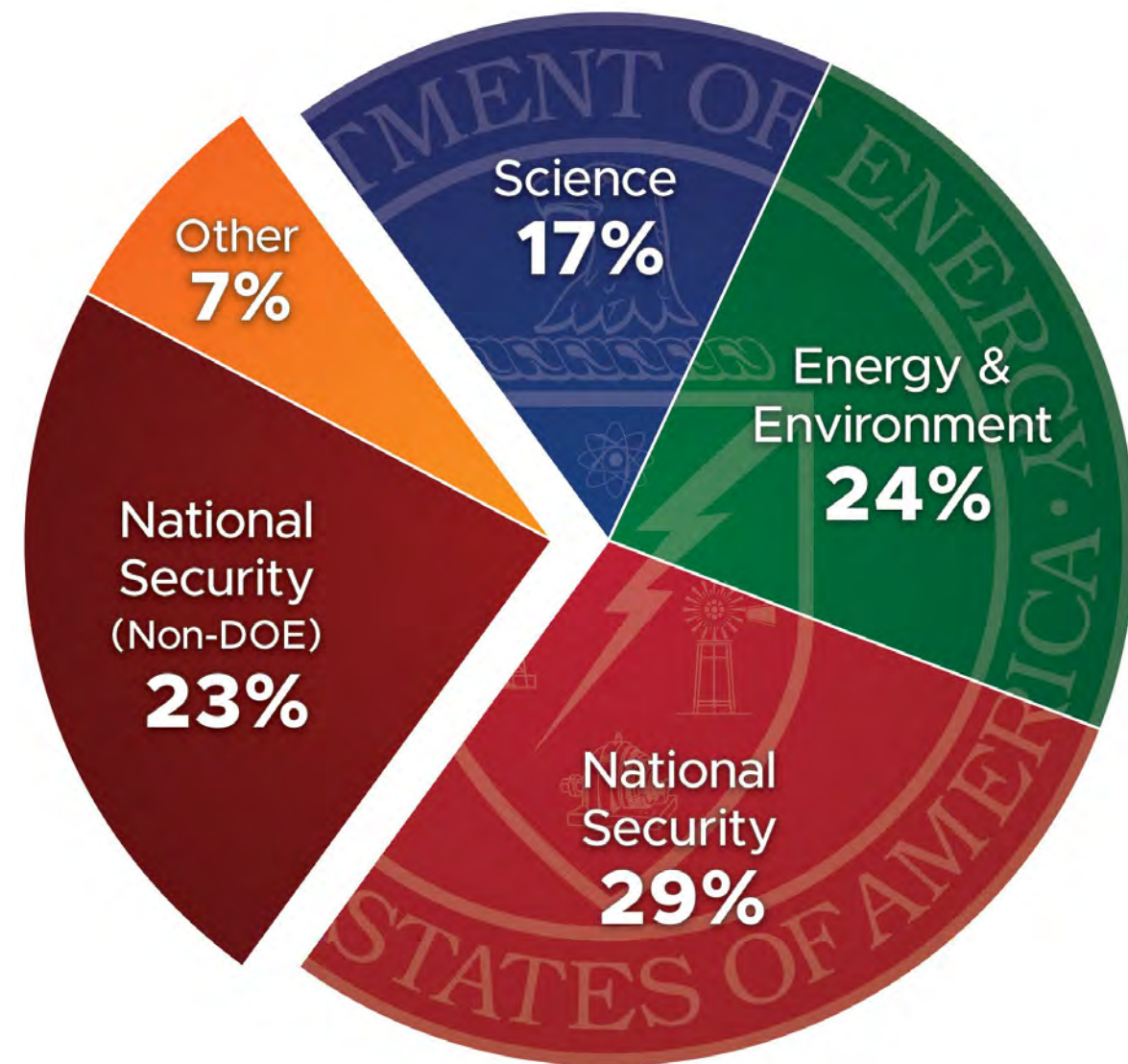
6,088 Staff



1,980 Peer-reviewed Publications

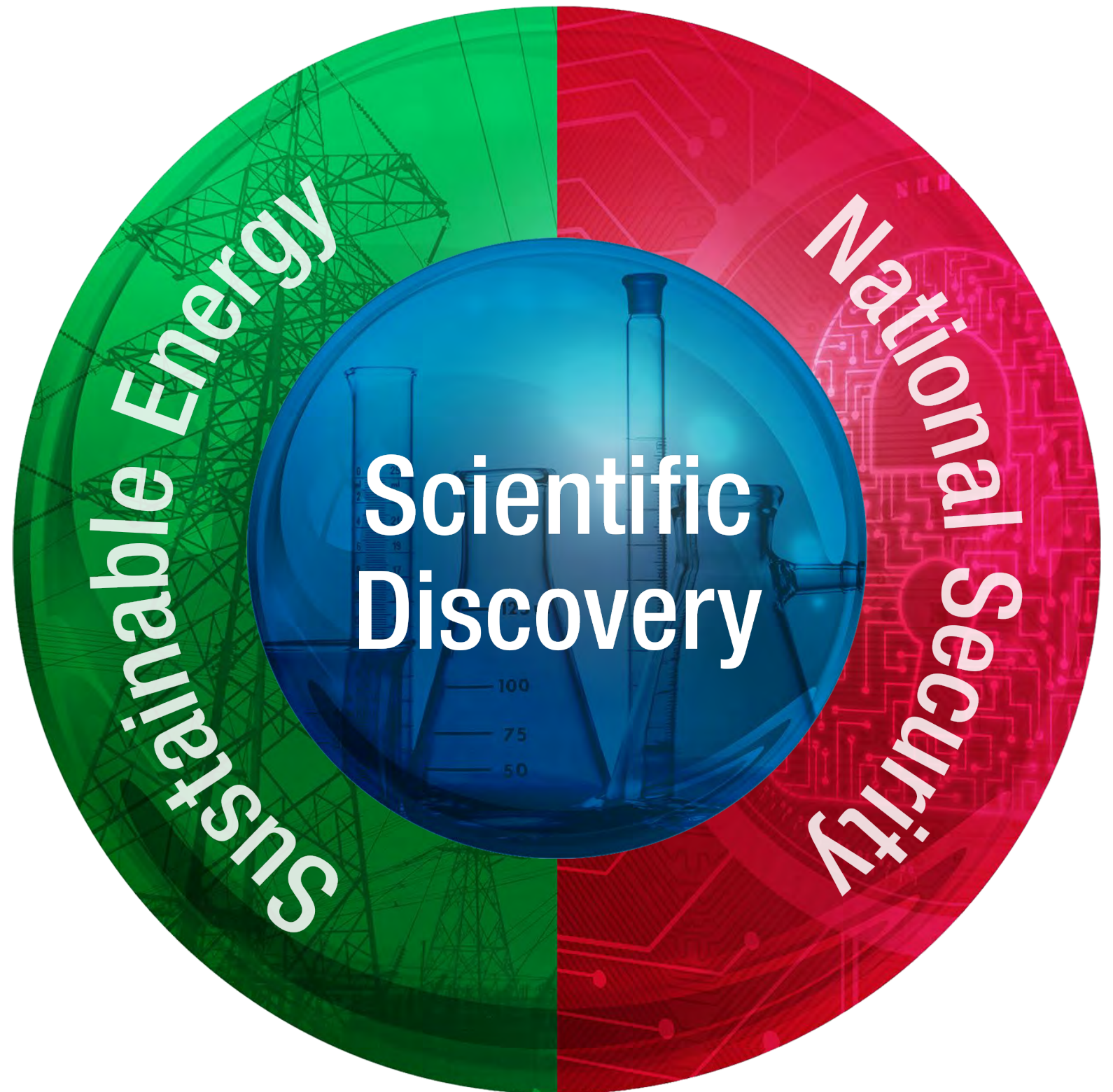


301 Invention Disclosures

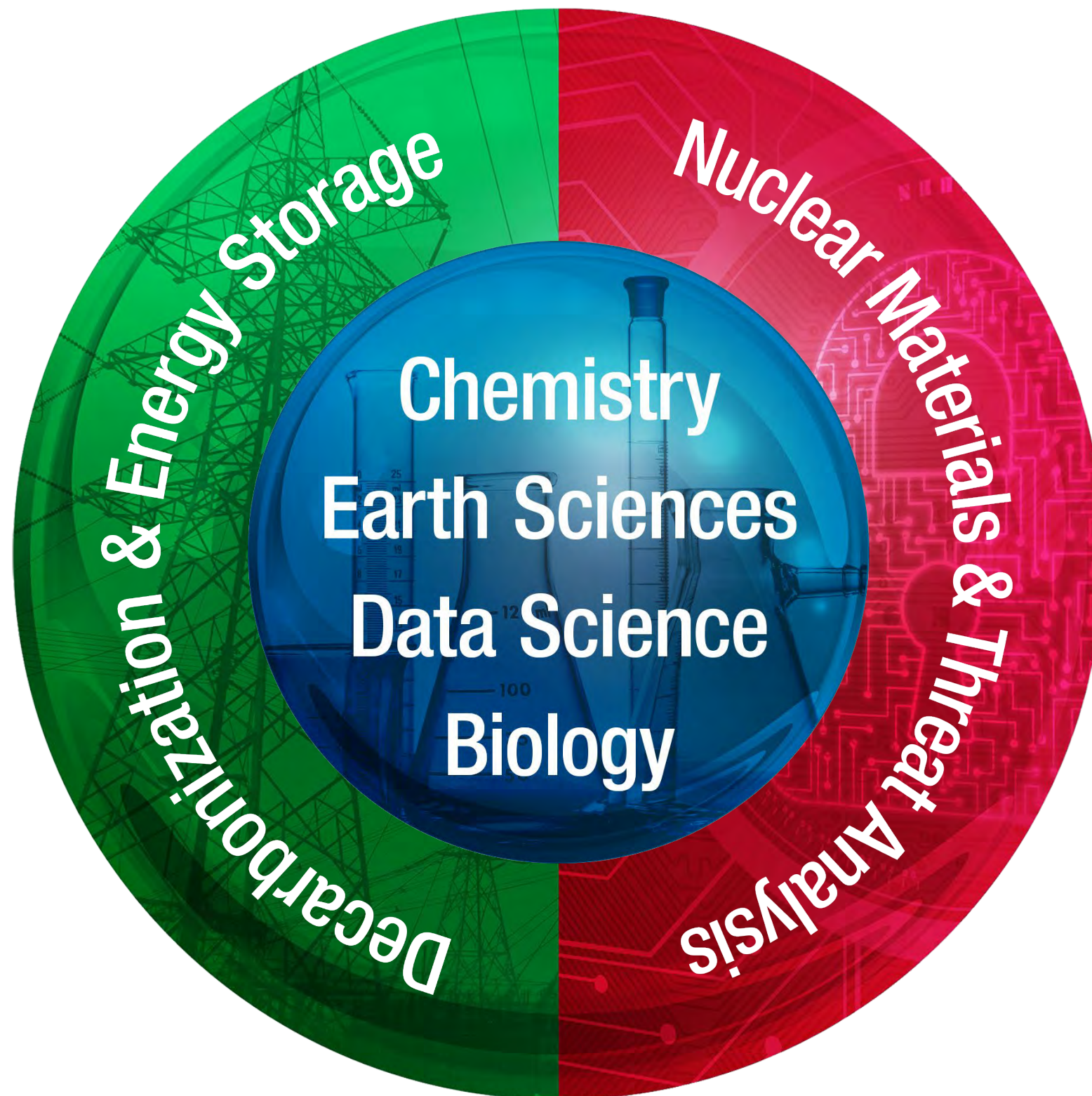


FY 2023 Spending

PNNL is **advancing
scientific frontiers**
and **providing
solutions** to critical
national needs



PNNL's distinguishing
strengths enable
mission **impact**



Scientific Discovery

EARTH SCIENCES

- Understand the influence of atmospheric **aerosols** and **clouds**
- Examine and model **integrated human-Earth** systems
- Combine observations and modeling to simulate **coastal processes**
- Explore **hydrobiogeochemical processes** in the environment



Scientific Discovery



CHEMISTRY

- Advance the frontiers of **chemistry**
- Develop **new catalysts** and processes
- Transform the **synthesis** of fuels, chemicals, and energy capture, conversion and storage materials



Sustainable Energy



DECARBONIZATION

- Enhance grid **flexibility** and **resiliency** while integrating distributed **clean energy**
- Improve energy **efficiency** in buildings and advance **transportation electrification**
- Develop **alternate fuels** and improve **carbon capture**



National Security



NUCLEAR MATERIALS

- Predict how **material structure** affects **processing** in support of nonproliferation
- Develop **new materials** and **processing systems**
- Speed the **qualification** of **nuclear materials** for energy and national security

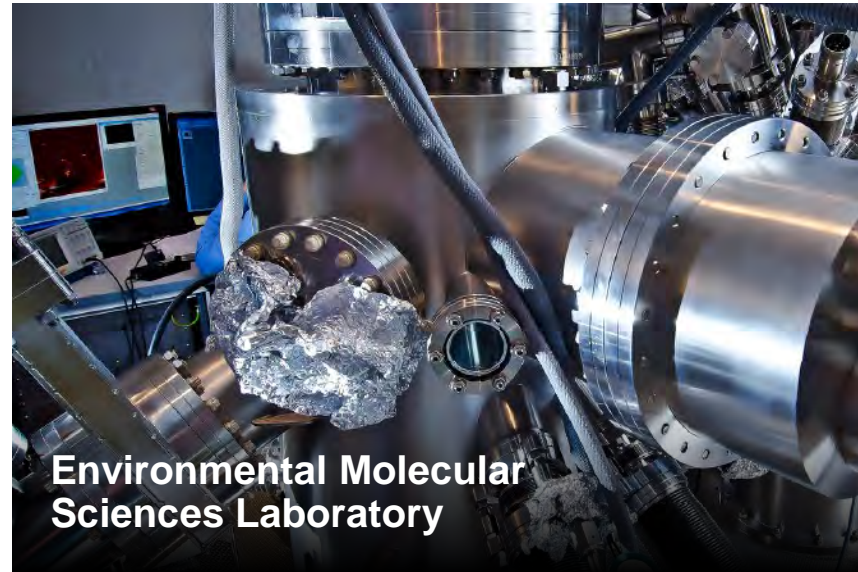




Investing \$1.2 billion over 10 years to modernize PNNL facilities and infrastructure



State-of-the-art facilities enable unique capabilities





Strengthening the **STEM** and Energy Workforce



Attracting and preparing
a **diverse** and **inclusive**
STEM workforce of the
future

Increasing **knowledge**
and **interest** in **STEM**
through interactive
learning with PNNL's
STEM Ambassadors

38,000+
STUDENTS
REACHED

132
STEM
AMBASSADORS

~1,600
INTERNS



**Pacific
Northwest**
NATIONAL LABORATORY

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