

Nonproliferation and International Safeguards Summer Course

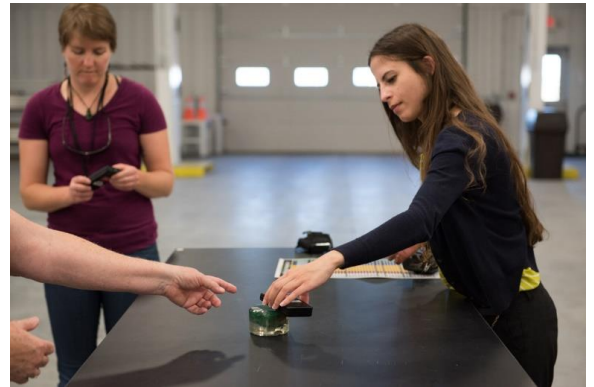
The Nonproliferation and International Safeguards Summer Course designed for undergraduate and graduate students, early-career professionals, and others interested in a greater understanding of international safeguards technologies and engagement with Pacific Northwest National Laboratory experts.

EVENT DETAILS

- » **Who:** Undergraduate and graduate students, early-career professionals, and others seeking to further their understanding of safeguards
- » **What:** 5-day activity-based course on applied international nuclear safeguards
- » **When:** June 21-25, 2021
- » **Where:** Virtually via Zoom
- » **Why:** To bridge the gap between fundamental and advanced safeguard's courses through an intermediate-focused applied safeguards course.

OBJECTIVES

This applied safeguards course covers topics such as the nuclear nonproliferation regime, nuclear fuel cycle, safeguards objectives and conclusions, and basic technical elements of safeguards using the International Atomic Energy Agency (IAEA) safeguard's implementation process.



COURSE STRUCTURE

This 5-day course features seminars, tabletop exercises, and other interactive group activities, such as those listed below. A final agenda will be provided to students enrolled in the course.

- » **Material Balance Area Tabletop Exercise:** Role play as the IAEA to develop material accountancy structures for a mock facility covered under IAEA safeguards.
- » **Containment and Surveillance Tabletop Exercise:** Participate in a tabletop exercise to better understand how containment and surveillance complements material accountancy and the role C/S plays in maintaining the integrity of IAEA safeguards.
- » **Capstone State Evaluation Exercise:** Learn the techniques the IAEA uses to evaluate a state's nuclear fuel cycle and implement safeguards. Participate in a virtual State Evaluation Group and use IAEA tools and techniques to evaluate safeguards implementation.



HOW TO APPLY

To apply, complete the registration form at <https://nonproportal.energy.gov/>

The application deadline is **May 1, 2021**.

This course is **FREE** to participants who are accepted. No travel and/or lodging expenses due to the virtual format.

Send questions regarding logistics or course content to SafeguardsCourse@pnnl.gov.

ABOUT PNNL

Located in southeastern Washington State, PNNL is a U.S. Department of Energy Office of Science laboratory that solves complex problems in energy, national security, and the environment, and advances scientific frontiers in the chemical, biological, materials, environmental, and computational sciences. With a team of more than 4,500 staff, PNNL has an annual budget of nearly \$1 billion and has been proudly managed

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