



# SAFEGUARDS INTERNSHIP PROGRAM

## *Training the Next Generation of Safeguards Experts*

PNNL seeks ambitious, high-caliber students to participate in the Safeguards Internship Program. Applicants pursuing a course of study including, but not limited to, the following areas should apply:

- ▶ Engineering
- ▶ Political Science
- ▶ Chemistry
- ▶ Applied Mathematics and Statistics
- ▶ Computer Science
- ▶ Physics
- ▶ Project Management
- ▶ Nuclear Nonproliferation

As nuclear power has increased worldwide, the demand for highly-trained safety, security, and safeguards professionals has also increased.

The Safeguards Internship Program offers students a unique and challenging opportunity at the Pacific Northwest National Laboratory (PNNL) in Richland, and Seattle, WA. Our program is designed to allow participants to gain knowledge in the foundation of nuclear safeguards, safeguards implementation, the evolution of safeguards, and contemporary political and technical challenges to safeguards while contributing to important safeguards-related work across the laboratory.

### WHAT ARE SAFEGUARDS?

International safeguards are a central pillar of the nuclear nonproliferation regime. Administered by the International Atomic Energy Agency (IAEA), international safeguards serve to monitor nuclear activities under the Non-Proliferation Treaty (NPT) and are the primary vehicle for verifying compliance with peaceful use and nuclear nonproliferation undertakings.

The Department of Energy's National Nuclear Security Administration (NNSA) Office of International Nuclear Safeguards goal is to develop the policies, concepts, technologies, expertise, and infrastructure necessary to sustain the international safeguards system.

For more information visit: <http://nnsa.energy.gov/mediaroom/factsheets/nextgenerationsafeguards>

### OUR INTERNSHIP PROGRAM

To ensure a valuable and hands-on experience, participants are paired with a mentor to provide advice and guidance as students work on nuclear safeguards-related projects. Some examples of assignments interns may be given include developing new sensors, working with hot cells, or writing papers with political implications for nonproliferation policy.

For a well-rounded experience, students with a background in policy gain a basic technical understanding to complement their policy experience, while more technically-focused students gain insight into the policy behind safeguards.

Each summer, interns attend an Introduction to Nuclear Safeguards short course, consisting of lectures, demonstrations and exercises presented by PNNL's many world-renowned safeguards experts. Additionally, students participate in tours of commercial and historic nuclear facilities which may include the Hanford B Reactor, Energy Northwest Columbia Generating Station, the AREVA Fuel Fabrication Plant and the Hazardous Materials Management and Emergency Response (HAMMER) Training Facility.



Safeguards participants observing a sample of yellowcake while learning fundamentals of radiation detection.

## WHY CHOOSE OUR SAFEGUARDS INTERNSHIP?

In addition to hands-on project work and participation in the short course, safeguards interns have the opportunity to experience:

- ▶ weekly videoconference discussions with safeguards experts from DOE and other national labs
- ▶ opportunities for in the field training, exercises and tours of commercial and historic nuclear facilities
- ▶ networking opportunities with other interns and PNNL's world renowned national security experts
- ▶ intern-focused activities and special events
- ▶ the unique opportunity of working at an Office of Science national laboratory that performs cutting-edge research and development

## ARE YOU OUR NEXT INTERN?

We are seeking post-bachelors, post-masters, and doctoral students in good standing from an accredited college or university. A minimum grade point average of 3.25 is preferred.

Internships can span 8-12 weeks during the summer months or 6 months up to 5 years, depending on the type of internship.

Selections are based on applicants' academic achievements, prior experience and career goals. Please note that all applicants must be eligible for a security clearance which requires U.S. citizenship (see website for additional information).



Participants learning design information verification methods.



Participants take part in a Safeguards Verification exercise.

## HOW TO APPLY

Interested students may access the safeguards internship website for more information on how to complete an internship application at:

<http://www.pnnl.gov/nsd/ngsi/>.

To apply, go to the website listed above and click on apply here. Open positions will be displayed.

After selecting the appropriate position, applicants will be asked to provide a current resume or CV, unofficial transcripts for all degrees, and a letter of interest.

- ▶ Internship applications/resumes will be disseminated to PNNL's safeguards technical mentors for review and selection.

Early application submittal is highly recommended to obtain maximum consideration. Evaluation of candidates for summer internships begins in December and continues through April.



For more information about the Safeguards Internship Program, refer to the Safeguards Internship website <http://www.pnnl.gov/nsd/ngsi/> or write to [safeguards.interns@pnnl.gov](mailto:safeguards.interns@pnnl.gov).

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