

Introductory Course on Nuclear Nonproliferation and Safeguards

Pacific Northwest National Laboratory, in support of the U.S. Department of Energy National Nuclear Security Administration's **Next Generation Safeguards Initiative**, is hosting a two-session, introductory course on nuclear nonproliferation and international safeguards. The course is tuition free and will be held at the Richland, WA campus of PNNL, June 23-25 and July 29-31.

The course will be open to a select number of university undergraduate and graduate students, early-career professionals, and others interested in building fundamental knowledge of nonproliferation and safeguards.

Topics to be covered

Basic Concepts, June 23-25, 2014

Participants will gain a baseline understanding of the nuclear fuel cycle, the nuclear nonproliferation regime, nuclear materials accounting, nondestructive assay (NDA) techniques and equipment, destructive assay (DA) techniques environmental sampling, and containment and surveillance.

Applied Skills, July 29-31, 2014

Participants will take part in group discussions and collaborative exercises, and apply key concepts related to proliferation pathway analysis, design information verification, and state-level safeguards.

The June and the July sessions are designed to be complementary, so attendance at both is highly recommended, although not required.

In addition, a number of tours will be offered in which participants can see concepts being applied firsthand. Tour and exercises will take place at regional nuclear fuel cycle facilities, PNNL laboratories, the HAMMER training facility, and the Waste Treatment Plant's Pretreatment Engineering Platform (PEP).

Application Process

To apply, send a resume and 500-word explanation of why you would like to attend to safeguards.interns@pnnl.gov with the subject heading "NGSI Safeguards Course Application." Please indicate which course(s) you wish to attend.

Application deadline: Friday, April 28, 2014

For more information, contact:

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Students and facilitators examine equipment as part of a Design Information Verification (DIV) exercise at the Pretreatment Engineering Platform.