LA-UR-20-28581

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Title: SEE LANL: Student Educational Experience at LANL

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Intended for: University presentation

Issued: 2020-10-23

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SEE LANL

Student Educational Experience at LANL

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October 23, 2020

Managed by Triad National Security, LLC for the U.S. Department of Energy's NNSA

What is the purpose of SEE LANL?

- To provide university students a hands-on nuclear safeguards training course based on the courses given to all IAEA inspectors
- To encourage networking and collaborations between university students/professors and laboratory staff
- To introduce students to the variety of safeguards-related technical work at LANL
- To provide early-career technical staff an opportunity to teach

Which universities have participated in SEE LANL?

PRINCETON
UNIVERSITY

TEXAS
The University of Texas at Austin

THE UNIVERSITY OF
TENNESSEE
KNOXVILLE

CLEMSON
UNIVERSITY

What activities does SEE LANL typically include?

- Basic and advanced lectures on neutron- and gamma-ray-based safeguards measurements (only 30 minutes each)
- Basic and advanced laboratory exercises – our focus is on hands-on laboratory experience!
 - Students work with various neutron and gamma detectors used by IAEA inspectors
 - Students measure special nuclear material – Pu and U

- Nuclear safeguards history and policy lecture
- Tours of LANL facilities including safeguards laboratories and other LANL facilities (i.e. DARHT/ LANSCE)
- Networking opportunities with LANL managers and students from other universities

What are student impressions of SEE LANL?

Overall, how satisfied have you been with the training you received at SEE LANL?

7 responses

How likely are you to recommend this experience to another student?

7 responses

I would recommend this experience to another student if they were interested in a career at a national laboratory. This course is an excellent way to learn about future job opportunities, meet and network with current employees, and tour facilities.

The staff at LANL are very hospitable and helpful. Seeing special nuclear material in front of a detector in a lab environment, and to see various facilities at LANL is a very unique experience.

Valuable experience! Course material was very in-depth and began with the fundamentals. I loved that there were both introductory and advanced versions of the gamma/neutron presentations to ease the students into the material. Laboratory work was very valuable to me because I learn by doing.

Additional Resources

- Nonproliferation portal
 - <https://nonproportal.energy.gov/>

Resources

Complementary Access eLearning Module

Cyber Security for Safeguards Board Game

Texts and Treaties

Title

External link	Media Type
view site	Book
view site	Treaty
view PDF	Treaty
view PDF	Treaty
view PDF	Treaty
view PDF	Treaty
view site	Treaty
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view site	Treaty
view site	Treaty
view site	Treaty
view site	Manual
view PDF	Report
view PDF	Report
view PDF	Report

Events and Courses

Event

- INSEP Knowledge Survey
- [POSTPONED] Pacific Northwest National Laboratory Lab Day 2020
- NNSA Graduate Fellowship Program (NGFP)
- Introductory Course on Nuclear Nonproliferation and Safeguards (June 22nd - June 26th, 2020)
- A Day in the Life of a Cyber Enabled Safeguards Inspector

Application Deadline ▲ Event type

Application Deadline	Event type
October 3, 2019	Other Opportunities
May 15, 2020	Internship
August 21, 2020	Training