

LA-UR-24-25639

Approved for public release; distribution is unlimited.

Title: Global Security Overview Solving National Security Challenges

Author(s): Nicholas, Nancy Jo

Intended for: NNSA-hosted Civil Society Engagement panel discussion on Nonproliferation work at the NNSA Laboratories

Issued: 2024-06-10



Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by Triad National Security, LLC for the National Nuclear Security Administration of U.S. Department of Energy under contract 89233218CNA000001. By approving this article, the publisher recognizes that the U.S. Government retains nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.



Global Security Overview

Solving National Security Challenges

Nancy Jo Nicholas

Associate Laboratory Director, Global Security

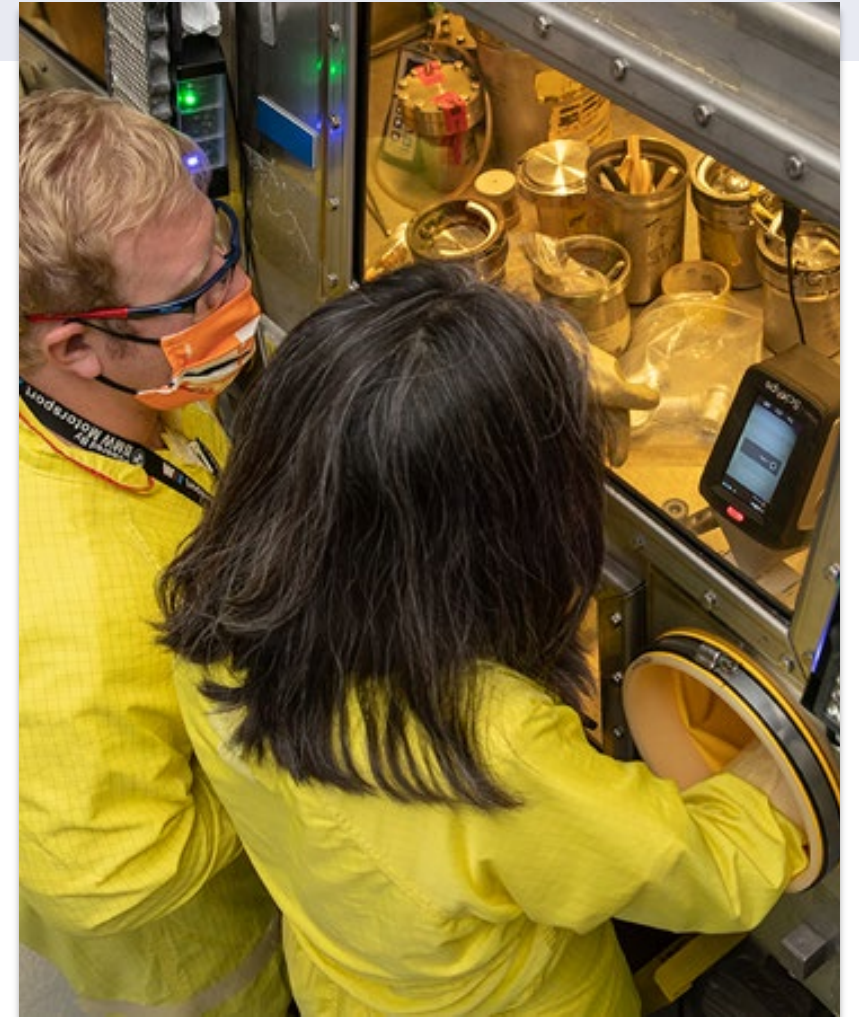
June 12, 2024

More than 80 years serving the nation

- In 1943, **Los Alamos National Laboratory** was founded with a single, urgent purpose: to build an atomic bomb
- Today, LANL focuses on maintaining a strategic nuclear deterrent to protect the nation's security
- Our workers, facilities, and instruments:
 - Detect nuclear weapons and improvised devices
 - Promote cooperation and diplomacy
 - Limit nuclear arms and the spread of nuclear materials, technology, and expertise
 - Advance the frontiers of science and engineering



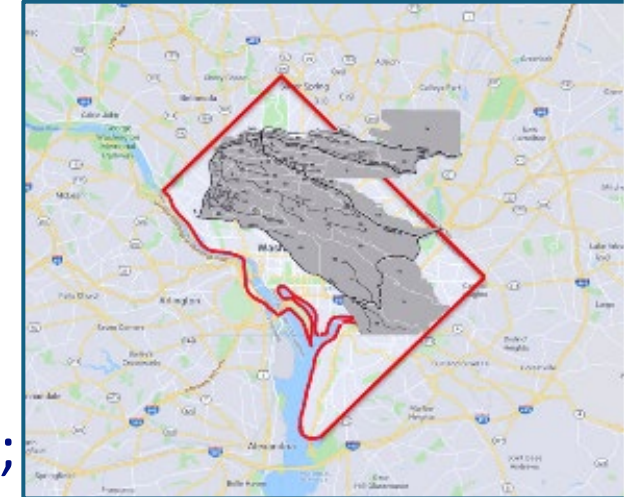
It takes a weapons lab to find a weapons lab



Employees manipulate materials inside a glovebox at TA-55.

Los Alamos delivers national security solutions

- We are dedicated to addressing complex national security issues and the world's most difficult challenges
 - By applying multidisciplinary science, technology & engineering capabilities;
 - In unique experimental, computational, and nuclear facilities;
 - With an agile, responsive, and innovative workforce;
 - And by partnering with peer institutions for mission success



LANL STATISTICS

\$4.5B budget

40 square miles,
47 technical areas

727 bldgs.,
7.6M sq ft.

13 nuclear
facilities

17,000 +
workers

13,000 career
employees

2,400 students,
550 postdocs

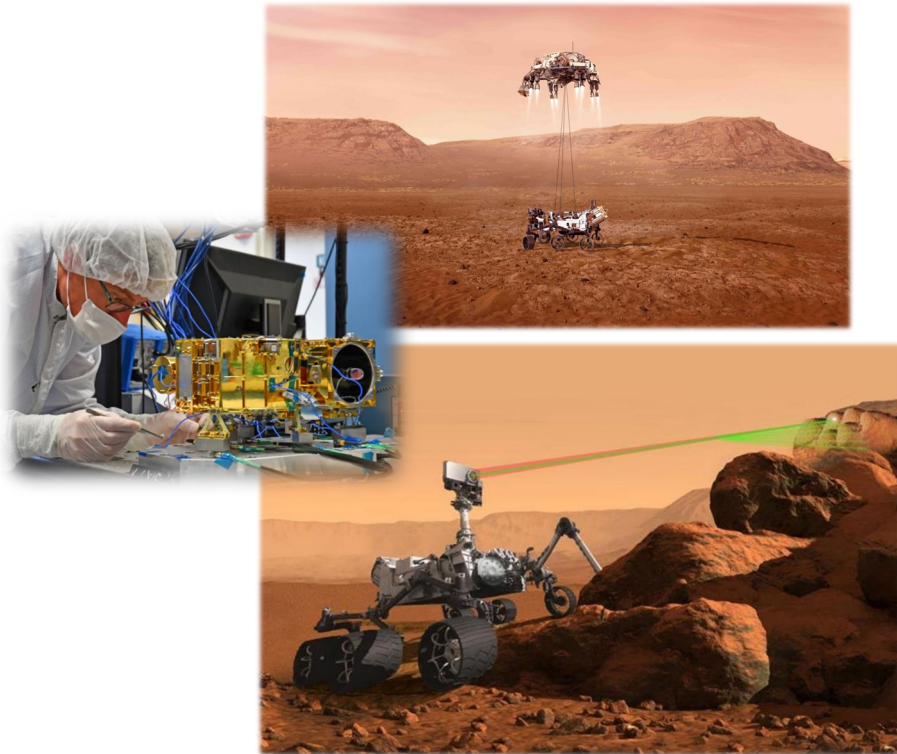
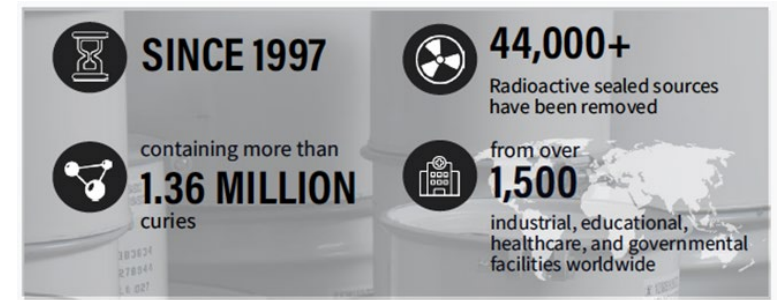
Employee
average age: 42

67% male;
33% female
49% minorities

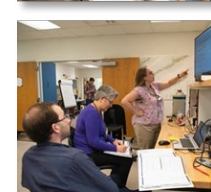
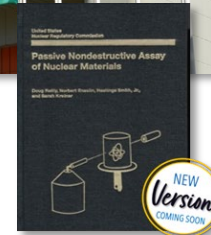
40% of employees
are native New
Mexicans



Global Security programs at LANL leverage, and support, Weapons Program capabilities



Extreme Engineering: The Perseverance rover is equipped with seven scientific instruments, two of which were developed in part at Los Alamos



Source handling: Off-site Source Recovery Program for domestic transuranic and large beta and gamma sources that do not have a commercial disposition pathway

SNM Handling: Training IAEA Safeguards Inspectors is a core element of LANL's safeguards program

