

Lab Agenda Snapshot

January 2022 Update

The Laboratory Agenda provides a structured framework that identifies the strategic objectives, critical outcomes, near-term R&D, and production and mission-support activities needed to accomplish our mission.

Strategic Objectives

Nuclear Deterrent

Lead the nation in evaluating, developing, and ensuring effectiveness of our nuclear deterrent, including the design, production, and certification of current and future nuclear weapons.

Threat Reduction

Anticipate persistent and emerging threats to global security; develop and deploy revolutionary tools to detect, deter, and respond proactively.

Technical Leadership

Deliver scientific discoveries and technical breakthroughs to advance relevant research frontiers and anticipate emerging national security risks.

Trustworthy Operations

Consistently demonstrate and be recognized by diverse stakeholders for trusted and trustworthy operations.

Critical Outcomes

Pit Production

Reconstitute optimized rate production of pits leveraging the nation's Plutonium Center of Excellence (Pu CoE) to support deterrence.

Non-Nuclear Production

Develop targeted non-nuclear production capabilities to address gaps in the national Nuclear Security Enterprise (NSE).

Computational Breakthroughs

Research, develop, and routinely apply world-leading computational methods, approaches, applications, and technologies to solve Los Alamos' most computationally challenging science and security problems.

Experimental Advances

Advance LANL's experimental characterization tools in conjunction with our computational advances to underwrite stockpile assessment without the need for a nuclear test.

Integrated Deterrence

Anticipate, develop, and demonstrate capabilities to solve emergent deterrence gaps.

Technology Modernization

Optimize and apply advanced technologies to enable modernization of the deterrent and its nuclear warheads.

Threat Response

Develop methodologies and tools, drawing on unique weapons capabilities, that influence international nonproliferation strategies, next generation arms control regimes, and technical solutions for counterterrorism, counterproliferation, and emergency response.

Quantum Leadership

Assert LANL leadership in the National Quantum Initiative; enable emergent scientific and national security needs by advancing quantum-relevant capabilities in materials, algorithms, simulation, and devices.

Climate & Clean Energy

Enable regional and national achievement of 2030/2050 climate and clean energy objectives through scientific, technological, and partnership innovations that build on established LANL capabilities.

Biosecurity Preparedness

Enable national preparedness and response to infectious diseases and biosecurity threats by harnessing life sciences along with other innovative scientific approaches.

Culture Enhancements

Champion enhancements to our work environment that support inclusive staff engagement, respectful behaviors, and learning opportunities that are the foundation for safe, secure, compliant, and quality performance of our missions.

Operational Capacity

Meet the capacity requirements necessary to perform current and future mission.

Force for Good

Be recognized as a force for good by Northern New Mexico communities and trusted by stakeholders to perform missions with minimal operational issues.