

# Integrated Technologies & Systems for National Security

*Providing innovative, science-based, systems solutions to the Nation's most challenging national security problems*

## Engineering, Science, and Technology with the Mission in Mind

Threats to U.S. national security are continually evolving, and Sandia has become a key resource in our nation's vigilance in anticipating and responding to those who would do us harm. Current threats include continuing strategic nuclear threats, threats from other nation states, threats from nonstate actors, threats of technological surprise, and other threats (e.g., natural disasters, energy disruption, power disruption, water scarcity, and climate change).

Six key mission areas at Sandia align with the nation's response to these national security threats. The first is our commitment to the nuclear weapon stockpile. The other five are managed by Sandia's Integrated Technologies and Systems organization for a number of agencies, including the Department of Defense, the Intelligence Community, several offices within the Department of Energy, and other federal agencies. These mission areas include the following:

- Preventing the spread of weapons of mass destruction
- Providing new capabilities for our nation's warfighters
- Defending against terrorism
- Helping to ensure the security and defense of our homeland
- Ensuring stable sources of energy and other critical resources

Sandia provides innovative, science-based, systems-engineering solutions to these challenging national security problems. The solutions are developed in partnership with government agencies, industry, academic institutions, and other national laboratories.

## Preventing the Spread of Weapons of Mass Destruction

One of the most serious problems facing the world is proliferation of weapons of mass destruction. Sandia is vigorously engaging both nationally and globally with key organizations and agencies to ensure that our technical and analytical capabilities meet this complex international challenge.

## Providing New Capabilities for Our Nation's Warfighters

Sandia is revolutionizing the nature of combat by actively supporting the nation's warfighters in the intelligence arena, on battlefields from cyber to ground to outer space, and in the laboratory by applying its engineering, science, and technology capabilities to develop innovative, technology-based systems solutions that anticipate and solve the toughest challenges.



## Defending Against Terrorism

The Global War on Terror touches us all, and terrorism will remain a threat for some time. Sandia is working with government agencies to protect our population through technologies such as biosecurity, cyber security, and intelligence analysis.



## Homeland Defense

Sandia is working in three key mission areas to apply its unique expertise to issues of homeland security and defense:

- Catastrophic Event Mitigation,
- Homeland Defense and Force Protection, and
- Risk Management and Infrastructure Protection.



## Ensuring Stable Sources of Energy and Other Critical Resources

Sandia's leadership in engineering, science, and technological capabilities will play an essential role in resolving



critical issues of world energy consumption and worldwide water shortages. Issues involving the production and transportation of energy will rise in political and economic importance. The demand for other energy sources will grow as the lack of supply, economic cost, environmental impact, and security of oil and natural gas as the primary energy resources become more pronounced. An integrated, secure energy enterprise with contributions from all energy sectors—nuclear, fossil, and renewable, together with a focus on management of water and other scarce resources—will emerge as a major national security need. Sandia is laying the groundwork for the nation's energy future.

## Multiprogram synergy and capabilities management are key to effective national security solutions.

Sandia's work for other agencies has leveraged diverse capabilities across various agencies and organizations for more than fifty years. This activity has expanded significantly over the past two decades. There are many examples where the nuclear weapons program has benefited from these program activities, including radar technology, safety and risk assessment, and improved modeling and simulation capabilities. Likewise, our other customers have benefited from the long history of DOE/NNSA investment in capabilities at the national laboratories.

## For more information, contact

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