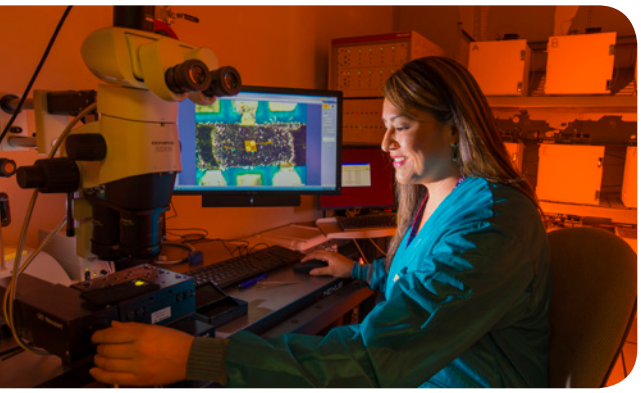
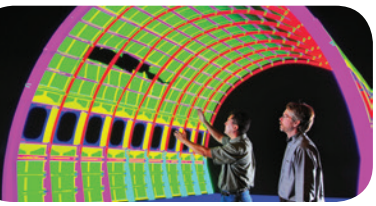
Sandia National Laboratories





Sandia grew out of America's World War II effort to develop the first atomic bombs. Today, keeping the U.S. nuclear stockpile safe, secure and effective is a major part of Sandia's work as a multidisciplinary national security, engineering laboratory. But Sandia's role has evolved to address the additional complex threats facing our country. Sandia carries out research and development in:

Nuclear Weapons – Supporting U.S. deterrence policy by helping sustain, modernize and secure the nuclear arsenal.

Defense Systems & Assessments – Supplying new capabilities to U.S. defense and national security communities.

Energy & Climate – Ensuring the stable supply of energy and resources, and protection of infrastructure.

International, Homeland & Nuclear Security – Focusing on the protection of nuclear assets and nuclear materials, and addressing nuclear emergency response and nonproliferation worldwide.

Sandia's science, technology and engineering foundations enable our unique mission. The laboratory's highly specialized research staff is at the forefront of innovation, collaborating with universities and companies and performing multidisciplinary science and engineering research programs with significant impact on U.S. security.

Sandia National Laboratories

Exceptional service in the national interest

People

Sandia's staff of about 10,800 employees includes 5,000 who hold advanced degrees.

Sandia people work at the laboratories' headquarters in Albuquerque, New Mexico; at a second lab in Livermore, California; and at other sites including Carlsbad, New Mexico; Las Vegas and Tonopah, Nevada; Amarillo, Texas; and Kauai, Hawaii.

Budget

Sandia's operating costs were about $2.6 billion in fiscal year 2014.

Capabilities

Meeting tomorrow's national security challenges will require readiness, excellence in engineering and rapid innovation. Sandia will help the nation solve significant problems with core capabilities in:

- Systems engineering and integration
- High-performance computing, as well as modeling and simulation
- Extreme-environment testing at unique facilities
- Nanotechnologies and microsystems

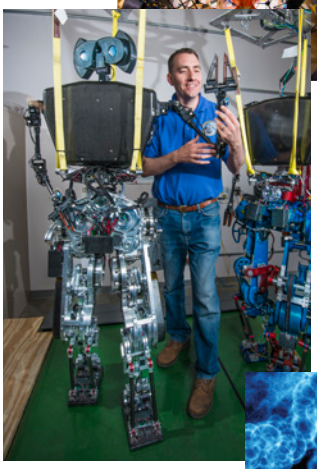
Collaboration

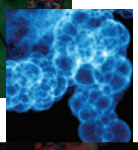
Sandia's customers and collaborators include many federal, state and local agencies, companies and academic institutions. Partnerships are formed through cooperative agreements, licensing, technical assistance, centers of excellence, use of unique Sandia facilities, personnel exchanges and other mutually beneficial arrangements.

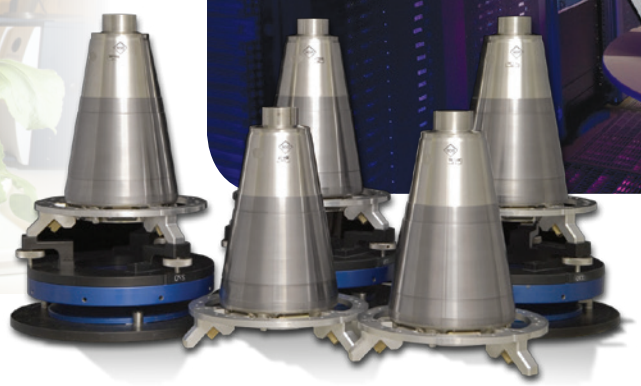
Achievements

Sandia has pioneered such products as cleanrooms for microelectronics manufacturing, triggers for automobile airbags and high-resolution radars that see through clouds and darkness. Recent achievements include:

- The B61-12 Life Extension Program that is modernizing the aging B61 bomb to ensure it continues to support the nation's nuclear deterrence policy
- Satellite sensors that help the nation monitor worldwide nuclear activity from space
- A device, known as the Air Bearing Heat Exchanger, or "Sandia Cooler," with the potential to dramatically alter the electronics chip-cooling landscape in computing
- New technology that dramatically improves the endurance of legged robots to aid in disaster response
- An adaptive zoom riflescope prototype that would be easy for soldiers to use, light-weight and extremely accurate







U.S. DEPARTMENT OF ENERGY

National Nuclear Security Administration

Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND2015-4868 M. June 2015.

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