

Leveraging a Rich Tradition of Premier Science and Technology

Ensuring national security has been Los Alamos National Laboratory's core mission for more than 60 years. The fact that our world-class scientific and technical staff routinely achieve breakthrough solutions to many of the nation's and the world's most crucial challenges is inherent in our work to preserve national security. From fundamental research in biology and global climate to problems related to nuclear nonproliferation, energy and infrastructure, and countermeasures to nuclear and biological threats, outstanding science underpins the Laboratory's past, present, and future.

Forging Strategic Partnerships with Industry

In order to share our innovations with the private sector, the Laboratory's Technology Transfer (TT) Division strives to forge strategic relationships with industry. Through these partnerships, we bring industrial innovation and best practices to our national security work while providing our industry partners with access to our cutting-edge research and talent. We offer a variety of ways for industry to partner with us:

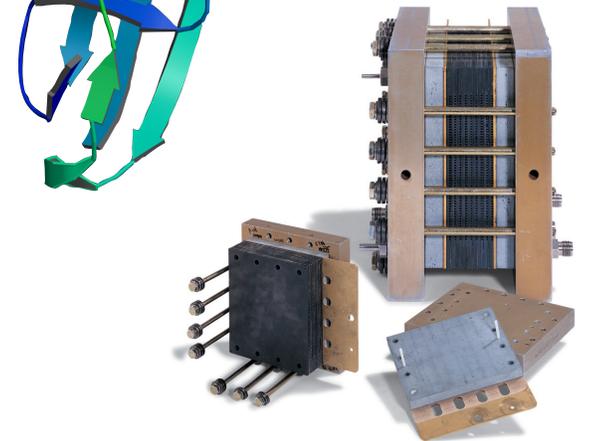
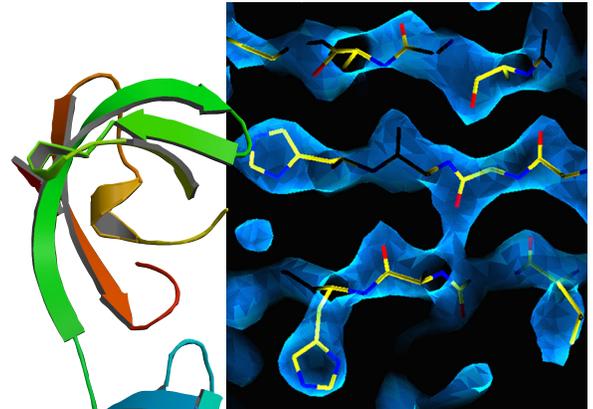
- license agreements
- cooperative research and development agreements (CRADAs)
- industry funds-in (Work-for-Others) contracts
- personnel exchanges
- technical consulting and assistance
- access to unique research staff and user facilities.

Protecting and Licensing the Laboratory's Intellectual Property

For the Laboratory to effectively work with industry, we must protect our intellectual property. TT Division works with the Laboratory Counsel to ensure protection of the Laboratory's intellectual property through patents and copyrights. Intellectual property protection enables us to negotiate, execute, and administer commercial, noncommercial, and government licenses for the Laboratory on behalf of Los Alamos National Security LLC, manager of the Laboratory. Through these agreements, we create vital links between the Laboratory and the private sector, leading to innovative and effective solutions to problems that affect the Laboratory, the private sector, and society.

Nurturing Startups

The Laboratory has instituted a variety of mechanisms to encourage the creation of new businesses based on Laboratory technology and expertise. To encourage regional economic development, TT works with our technical staff to assess and package technologies that could form the basis of a new company. And to encourage participation in these activities, the Laboratory maintains an Entrepreneurial Leave-of-Absence Program that allows employees to support these new ventures while maintaining ties with the Laboratory. In addition, TT works with investors, existing small businesses, and entrepreneurs to inform them about new commercialization opportunities, sponsored training and networking events, and access to business assistance through TT Division's MBA Internship Program.



Scientists create 3-D images of protein molecules using SOLVE/RESOLVE, licensed to more than 24 companies for commercial use in the biotechnology and pharmaceutical fields.

BMC 940, a technology licensed by BMC Inc., is used for molding detailed bipolar plates for fuel cells.

With its unprecedented level of detail, our EpiCast modeling and simulation software has been used to evaluate various medical and non-medical mitigation strategies in the event of a pandemic influenza outbreak in the United States.

Technology Transfer Division



Above, the Laboratory complex is spread out over 36 square miles in the Jemez Mountains of northern New Mexico.

About Los Alamos National Laboratory

From its origins as a secret Manhattan Project laboratory, Los Alamos has attracted world-class scientists and applied their energy and creativity to solving the nation's most challenging problems. That tradition remains today. As one of the U.S. Department of Energy's multi-program, multi-disciplinary research laboratories, Los Alamos thrives on having the best people doing the best science to solve problems of global importance.

The University of California, operator of the Laboratory for the U.S. government from its inception through May 31, 2006, continues to maintain a strong connection with the Laboratory as one of four partners comprising Los Alamos National Security LLC, the current operator of the Laboratory. The University has contributed significantly to the scientific quality of the Laboratory's work and technical staff bringing its tradition of world-class science—imprinted by its first director, physicist J. Robert Oppenheimer—to bear on the Laboratory's creativity and innovation, sustaining a rich variety of research programs that directly and indirectly support the Laboratory's basic mission of maintaining the nation's nuclear stockpile. As a national research laboratory, success depends on remaining at the forefront of multi-disciplinary and robust science.

The Laboratory's ability to remain at the leading edge of discovery in science and technology is enhanced by ongoing collaborations with industry, academia, and other laboratories. Laboratory-industry partnerships bolster the U.S. economy and increase the nation's global competitiveness.

As one of the largest employers in Northern New Mexico, the Laboratory employs over 11,000 people with an annual budget of \$2 billion. With its salary and benefits, statewide procurements, and community development programs, the Laboratory represents significant economic impact for the region and the state. Approximately one-third of the Laboratory's technical staff members are physicists, one-fourth are engineers, one-sixth are chemists and materials scientists, and the remainder work in mathematics and computational science, biological science, geoscience, and other scientific disciplines. Professional scientists and students come to Los Alamos from all over the world as staff and visitors to participate in scientific projects.

Fast Facts

People: 11,231 total employees.

Los Alamos National Security, LLC	7,629
SOC (Guard Force)	630
KSL (construction & maintenance)	876
Other contractors	397
Postdoctoral employees	356
Students	917

Place: Located 35 miles northwest of Santa Fe, New Mexico, on 36 square miles of DOE-owned property. More than 2,000 individual facilities, including 47 technical areas with 8 million square feet under roof.

Replacement Value: \$5.9 billion
Budget FY 2008: Approx. \$2 billion

55% Weapons Programs
8% Nonproliferation programs
7% Safeguards and Security
8% Environmental Management
3% DOE Office of Science
4% Energy and other programs
15% Work for Others

Workforce Demographics: 49% of employees live in Los Alamos, the remainder commute from Santa Fe, Española, Taos, and Albuquerque.

Average Age: 46.6 – 65% male, 35% female; 39% minorities; 72% hold undergraduate degrees; 41% hold graduate degrees; 22% have earned a Ph.D.

Major Awards: 105 R&D 100 awards since 1978; 28 E.O. Lawrence Awards; the Seaborg Medal; the Edward Teller Medal.

Los Alamos National Laboratory is operated for the Department of Energy's National Nuclear Security Administration by Los Alamos National Security, LLC, a team of Bechtel National, the University of California, BWX Technologies, and Washington Group International.