Sandia National Laboratories

Exceptional service in the national interest

NEW MEXICO LEGISLATIVE FINANCE COMMITTEE

Building on Energy Research Development and Deployment

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U.S. DEPARTMENT of ENERGY | NNSA National Nuclear Security Administration

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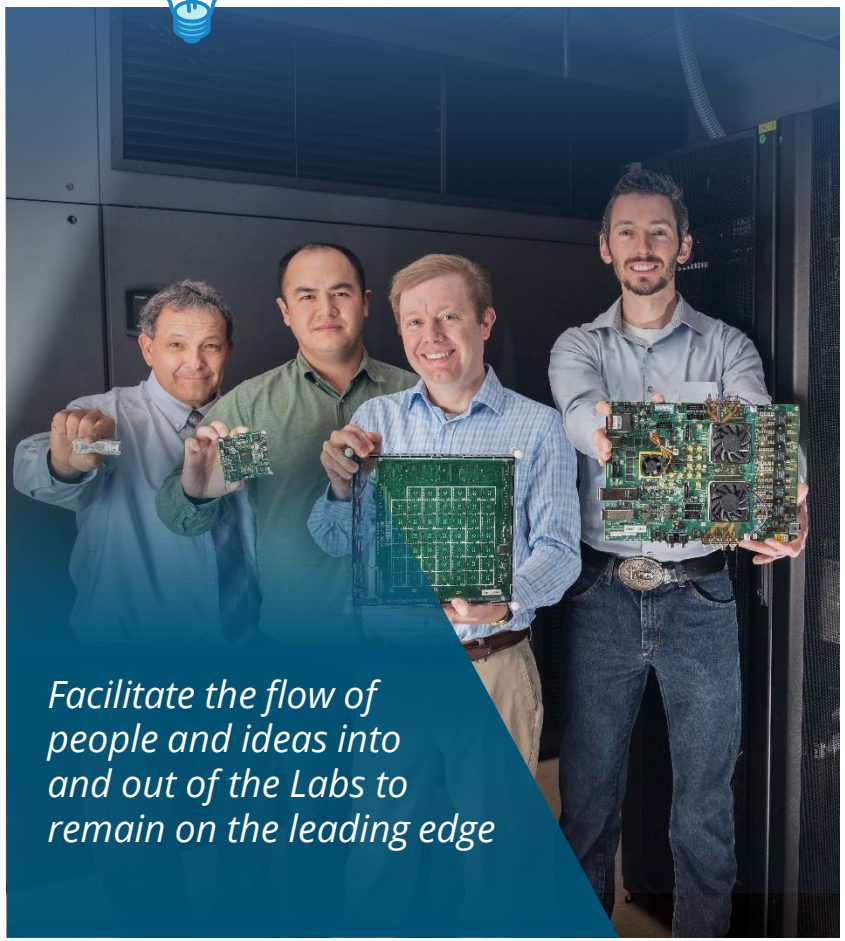
TECHNOLOGY PARTNERSHIPS

Tech transfer is a mission of the Labs and has wide-ranging internal and external impacts

Enhance Mission Delivery

Develop/deploy technologies for mission delivery, capacity creation, and supply chain benefits

Enable Innovation



Facilitate the flow of people and ideas into and out of the Labs to remain on the leading edge

Maximize Public Good

Enhance the local and national economy to ensure long-term competitiveness

TECH TRANSFER IS PART OF OUR MISSION

The Integrated Partnerships Organization (IPO) serves as Sandia's Office of Research & Technology Applications (ORTA) and is how Sandia coordinates its tech transfer functions

ORTA and tech transfer requirement is established in law

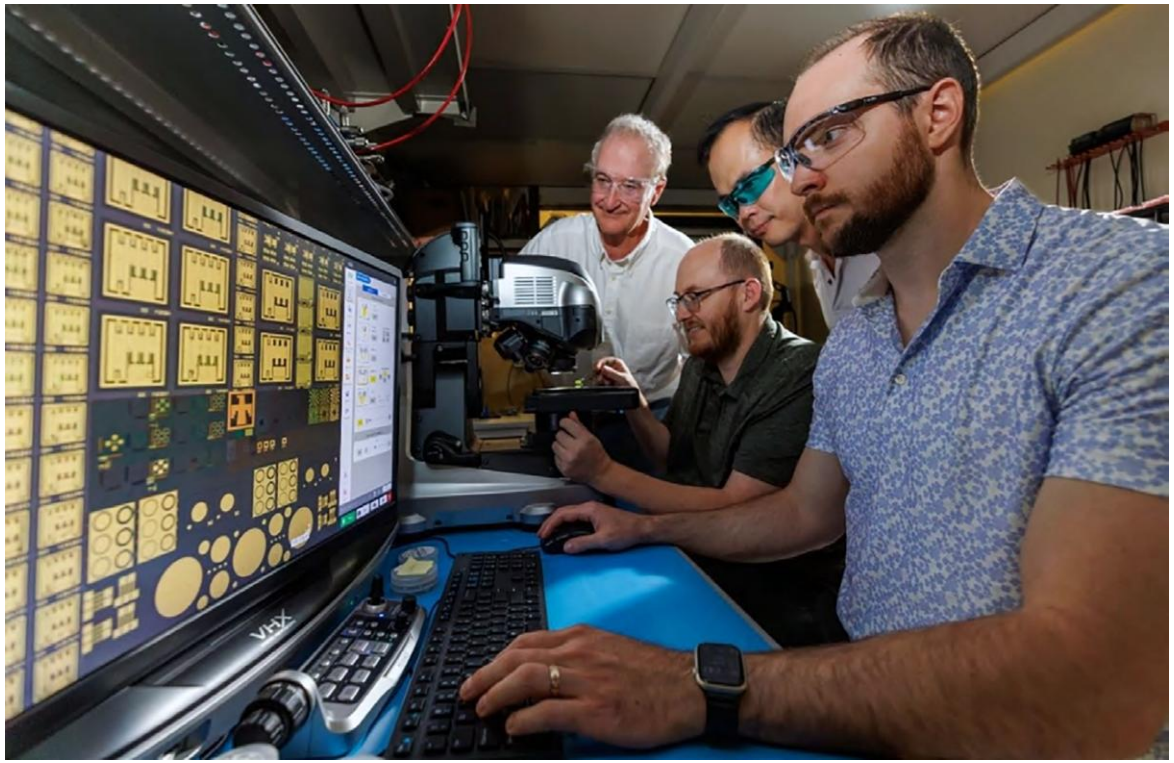
- Stevenson-Wydler Technology Innovation Act of 1980
- Federal Tech Transfer Act (1986)

Sandia's Prime Contract

- Defines the tech transfer mission
- Says the mission should be carried out through an organization consistent with ORTA requirements

The IPO is the organizing principle for the ORTA at Sandia, and consists of:

- Agreements
- Business Development
- Economic Development
- IP Management & Licensing
- Legal Tech Transfer



Examination of record-setting hafniagated GaN MOSFETs under an optical microscope. The material improves energy efficiency in power semiconductors by minimizing energy losses, which is critical amid growing demand from AI, data centers and global electrification. Hafnia gate dielectrics can be used cost-effectively in many applications, including transportation and smart grids.[1]

[1] https://ip.sandia.gov/opportunity/hafnia-gate-dielectrics-for-energy-conversion/

SANDIA PARTNERSHIP OPPORTUNITIES

SANDIA OFFERINGS:

PARTNER TYPES

- Business, Industry & Non-Profits
- Universities
- Government Agencies
- Other National Labs

PARTNERSHIP MECHANISMS:

Cooperative Research and Development Agreement (CRADA)
Sandia and one or more partners outside the Federal government collaborate and share the results of a jointly conducted research and development project.

License
Sandia conveys IP rights to a licensee for commercial, research, or evaluation purposes. IP includes patent applications, patents, copyrights, and trademarks.

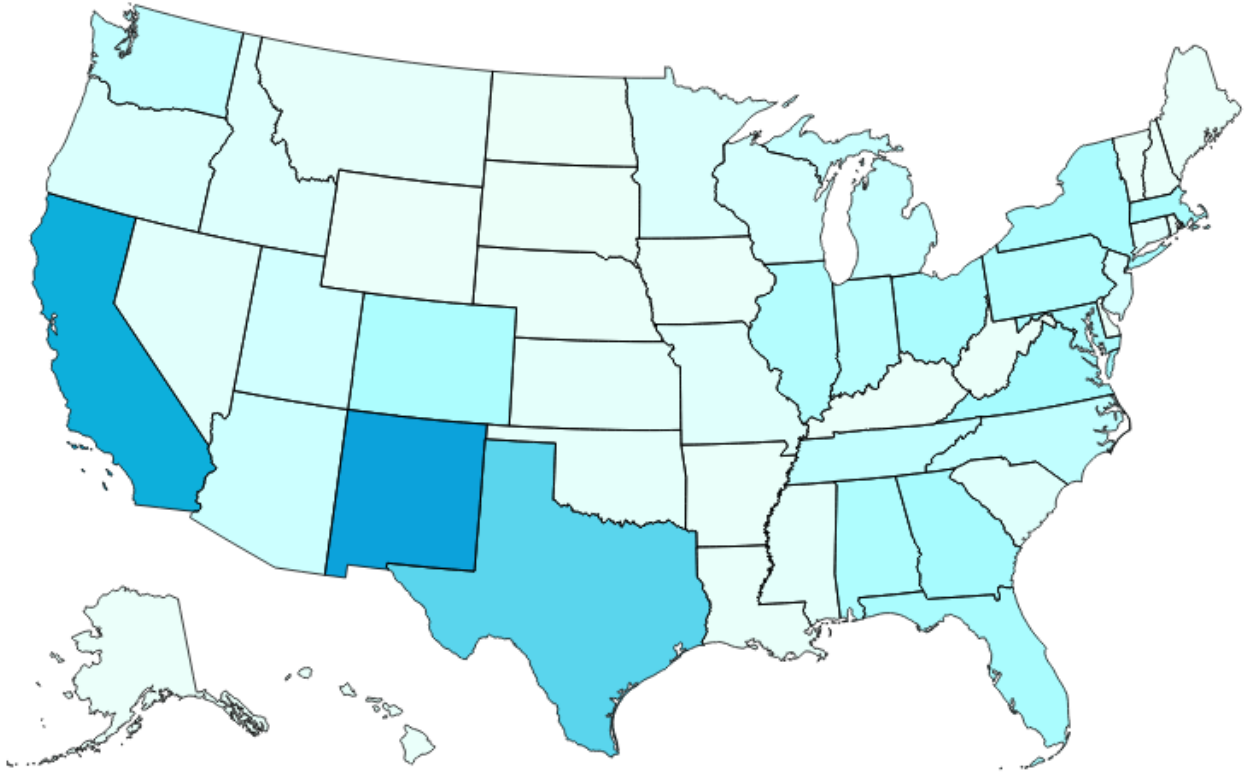
Strategic Partnership Projects, Non-Federal Entity Agreements (SPP/NFE)
Sandia performs work on a reimbursable basis for a non-Federal entity sponsor.

Technology Deployment Centers
Streamlined access to Sandia facilities, equipment, and personnel (not intended for use when IP may be generated)

New Mexico Small Business Assistance (NMSBA) and Technology Readiness Initiative (TRGR)
Provides New Mexico small businesses facing technical challenges access to the unique expertise and capabilities of Los Alamos and Sandia labs at no cost to them.

NATIONAL REACH OF PARTNERSHIPS

In FY23, Sandia executed more than 3,085 agreements with ~1,210 partners across the country



**Color density is associated with number of agreements. Darker states have more agreements than lighter states.*

Top 3 States

Number of Agreements (FY19- FY23)

- **New Mexico** — 1,545 Agreements
- **California** — 697 Agreements
- **Texas** — 384 Agreements

AGREEMENTS INCLUDE

Cooperative Research and Development Agreements (CRADA), Government Use Notices, IP Licenses, Strategic Partnership Projects with Non-Federal Entities, New Mexico Small Business Assistance Program projects, and agreements through Sandia's University Partnership Program

TechLink study on CRADAs and licenses

Relevant agreements from 2000 to 2020

$140.2B
in total nationwide economic impact

$22.52B
in sales of new products to the government

$72.2B
in total sales of new products & services from Sandia's licenses and CRADAs

$14.1B
in new tax revenues (federal, state, and local)

607,246 jobs
created

*Lawrence Livermore National Laboratory generated more than **$8B** in total nationwide economic impact between 2000 and 2020; Los Alamos generated **$2.5B***

ENERGY RESEARCH & INTELLECTUAL PROPERTY

Sandia's energy mission seeks to enhance national security and prosperity through sustainable, transformative approaches to energy problems.

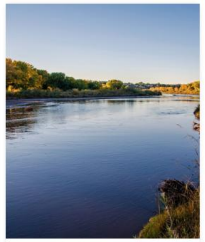
Sandia's research programs span the breadth of work in energy security—from electric grid modernization to renewable energy, from nuclear power plant safety to electric vehicle technologies.

ADVANCED MANUFACTURING & INDUSTRIAL TECHNOLOGIES

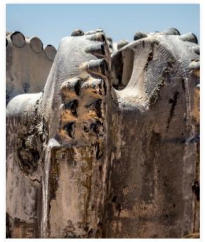
ARCTIC SCIENCE & SECURITY

ELECTRIC GRID

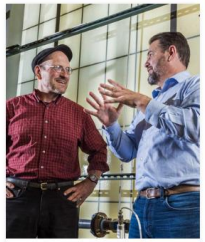
ENERGY STORAGE



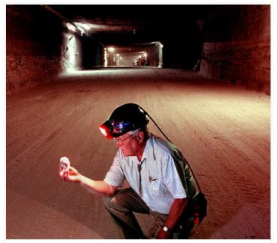
ENERGY & WATER



FOSSIL ENERGY & CARBON MANAGEMENT



NUCLEAR ENERGY



NUCLEAR WASTE MANAGEMENT

RENEWABLE ENERGY

SUSTAINABLE TRANSPORTATION

Overall, Sandia has more than 2,000 patents available across 14 technology areas and portfolios.

The **Energy Security** technology area contains advancements that address some of the most significant national challenges across the energy, environmental, and infrastructure sectors.

*More than **50** featured opportunities and more than **200** patents and applications are available through ip.sandia.gov.*

- Bioscience & Medical
- Chemistry, Materials & Coatings
- Computing & Data Science
- Defense
- Electronics & Instruments
- Environment
- Manufacturing & Assurance
- MEMS & Microdevices
- Photonics & Lasers
- Quantum Science
- Radar & Terahertz
- Security
- Sensors & Detectors

EXAMPLES OF PARTNERSHIP SUCCESSES & TECH OFFERINGS

CRADAs enable Sandia and its partners to collaborate and share the results of jointly conducted research. *Sandia entered into 73 new agreements with private sector and academic partners, matching last year's record which surpassed the average from the past decade by 93%.*

BOOSTING EVERYDAY PRODUCTS

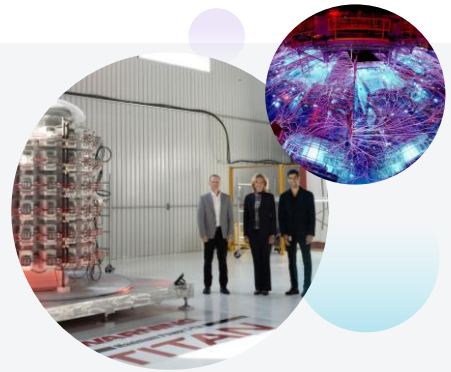
Sandia has supported startups in bringing new energy and advanced battery technologies to market.

GridFlow has licensed Sandia lithium-sulfur flow battery technology and is developing a residential-scale energy storage prototype with support through the TRGR Technology Readiness Initiative.

DEVELOPING NEXT-GENERATION TECHNOLOGIES

Sandia has established partnerships with multiple fusion companies to accelerate next-gen pulsed power technologies.

Fuse Federal signed a new type of CRADA with Sandia and plans to build commercial versions of Sandia's Z Machine for government and commercial use. The company has successfully built and tested a demonstrator module named TITAN.



SHAPING THE FUTURE

Sandia has been playing major roles in workforce and ecosystem development for quantum.

Sandia is advancing quantum research and development with industry partners while supporting state-led initiatives and workforce development. Example activities include Elevate Quantum, the Quantum Demonstration Facility, and the Quantum Learning Lab.

NEW MEXICO PROGRAMS

Sandia engages and assists businesses across New Mexico and beyond through programs such as NMSBA and TRGR.

New Mexico Small Business Assistance (NMSBA) Program [1]

$89.8 M
Technical Assistance Provided by Labs

12,723
Jobs Created and Retained

3,410
Businesses Assisted

33
New Mexico Counties Supported

NMSBA

nmsbaprogram.org

Technology Readiness (TRGR) Initiative [2]

$27.6 M
New Funding/Financing Received by Participants

74
Jobs Created and Retained

36
Businesses Served

$1.9M
Invested in NM Goods/Services

TRGR Technology Readiness Initiative

nmtrgr.org

[1] Cumulative numbers since inception of NMSBA in 2000 (as of 2024), https://www.sandia.gov/app/uploads/sites/113/2026/01/NMSBA-2024-Perspectives_Web.pdf
[2] Cumulative numbers since inception of TRGR in 2020 (as of 2025), https://www.sandia.gov/app/uploads/sites/113/2026/01/TRGR-FY2025-Progress-Report_web.pdf

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About partnering with Sandia:
sandia.gov/working-with-sandia/technology-partnerships/

And about our commitment to innovation:
ip.sandia.gov/commercialization-highlights/