

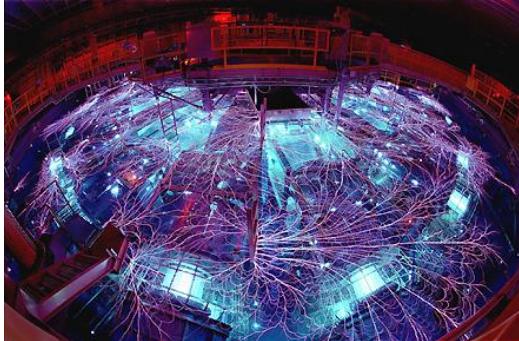
Exceptional service in the national interest



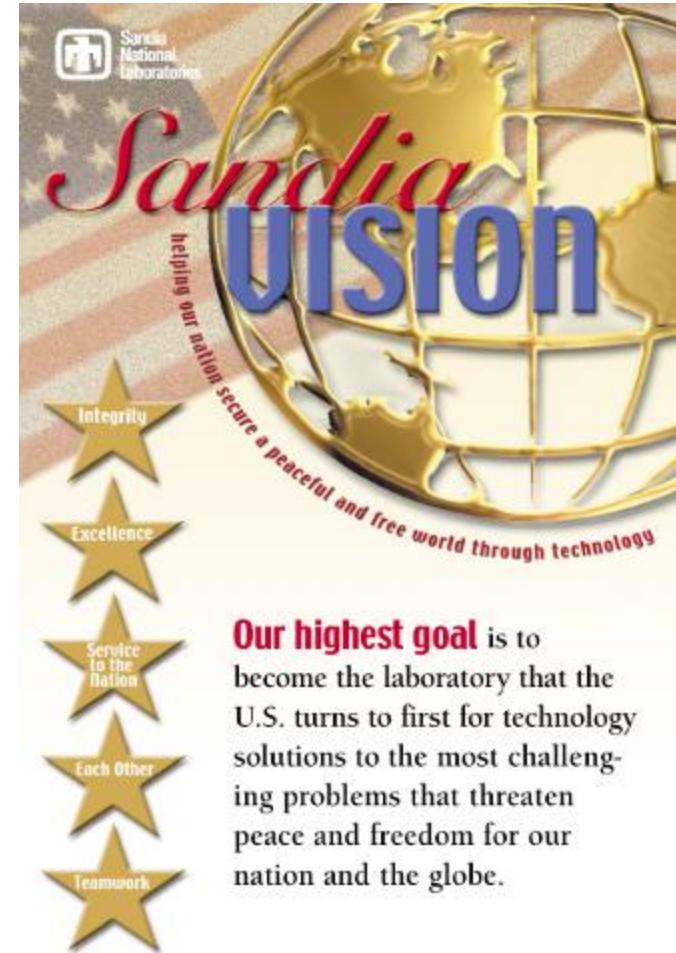
University of Arizona Campus Visit

5-6 November 2012

The laboratory the U.S. turns to first

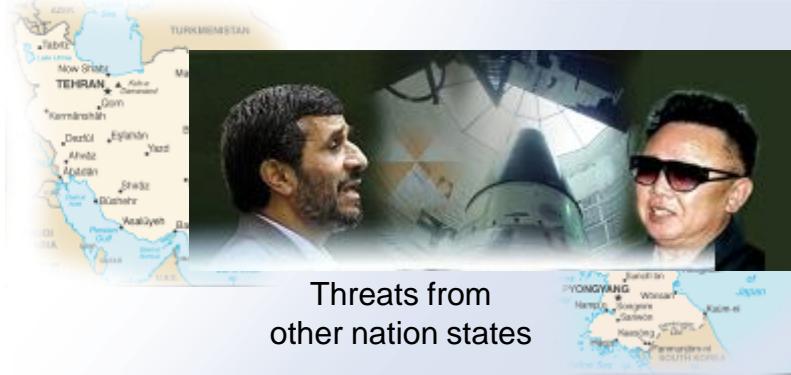


- National Security Laboratory
- Broad mission in developing science and technology applications to meet our rapidly changing, complex national security challenges
- Safety, security and reliability of our nation's nuclear weapon stockpile



Our highest goal is to become the laboratory that the U.S. turns to first for technology solutions to the most challenging problems that threaten peace and freedom for our nation and the globe.

Addressing Our Evolving National Security Environment is of the Greatest Importance



Where is Sandia?

■ Albuquerque, NM

- Top 10 most affordable cities
- Outstanding climate with 310 days of sunshine
- World famous cuisine & arts
- Paradise for outdoor recreation
 - World-class skiing/snowboarding
 - Challenging cycling/mountain biking & running
 - Camping & fishing
 - 2 of the nation's top 50 golf courses



■ Livermore, CA

- Located in the Bay Area
 - Over 1,100 miles of beaches
 - 6 major professional sports leagues
 - Haven for musicians & artists
- Over 40 world class wineries
- Farmers Markets
 - Fresh fruits & veggies grown year round
- Largest urban national park in the world – Golden Gate Park

Total Rewards

- The Work Experience
 - Challenging assignments
 - State-of-the-art research facilities
 - Internationally recognized scientists and engineers
 - Rotational opportunities
 - Diverse fields
- Site Amenities
 - Company sports teams
 - Recreational Equip rentals
 - Indoor/outdoor pools
 - Rock climbing gym
- Work/Life Balance
 - 9/80
 - flex
 - Vacation buy
 - Telecommuting
 - Holiday Shutdown
- 401(k)
 - Sandia automatically contributes 6%
 - Then matches 2/3 of your first 6% contribution

University Programs



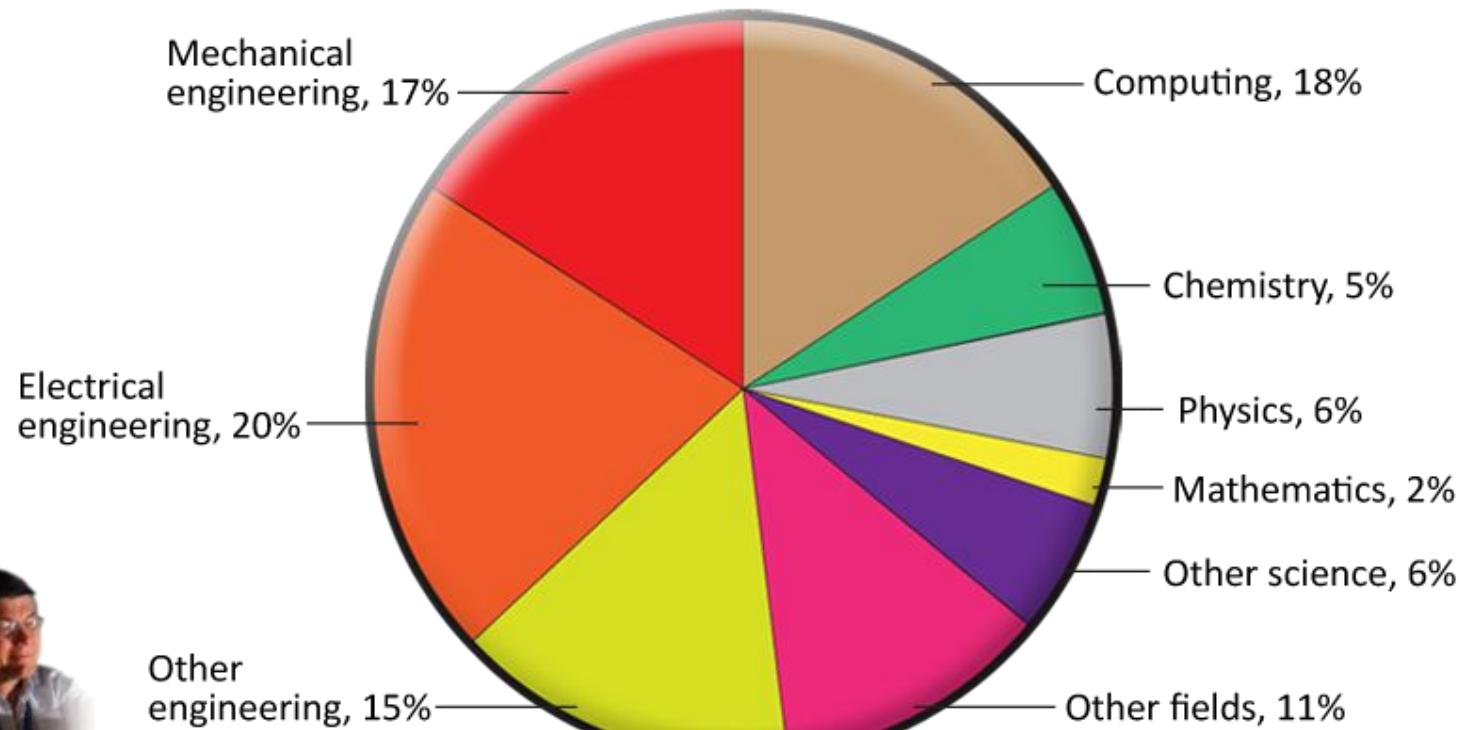
- Tuition Assistance Program (TAP)
- University Part-Time (UPT)
- Special Masters Program (SMP)
- Doctoral Study Program (DSP)
- Master's Fellowship Program (MFP)
- Critical Skills Master's Program (CSMP)

People and Budget

- Onsite workforce: 11,500
- Regular employees: 8,950
- Gross payroll: ~\$515M
- Budget: \$2.4B

Data for FY12 through the end of March

Technical staff (4,650) by discipline



Emerging National Security Thrusts



Nuclear



Energy



Cyber



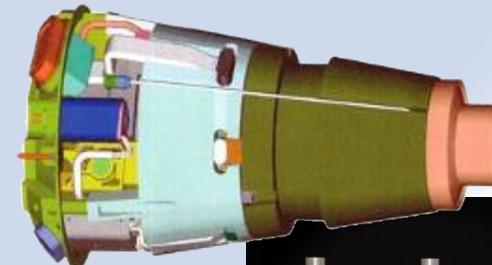
Science & Technology



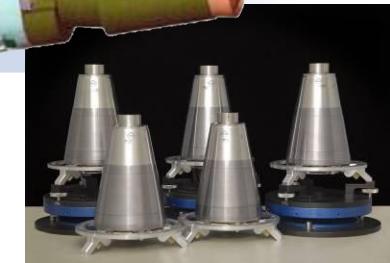
Nuclear Weapons



**Integrated,
engineered warhead
systems**



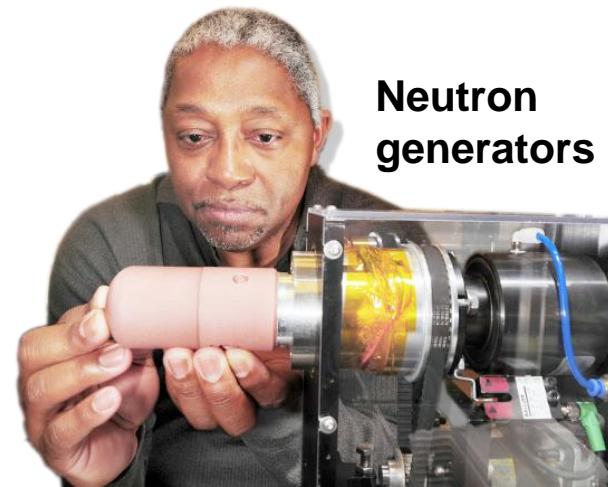
**Arming, fuzing,
and firing
systems**



Safety systems

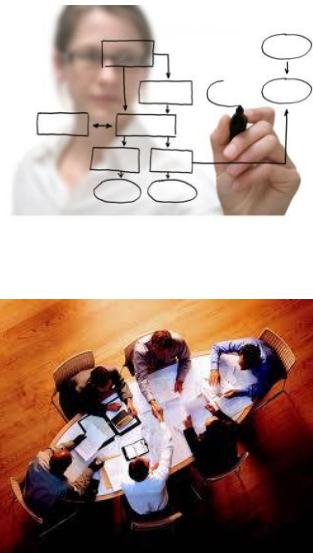
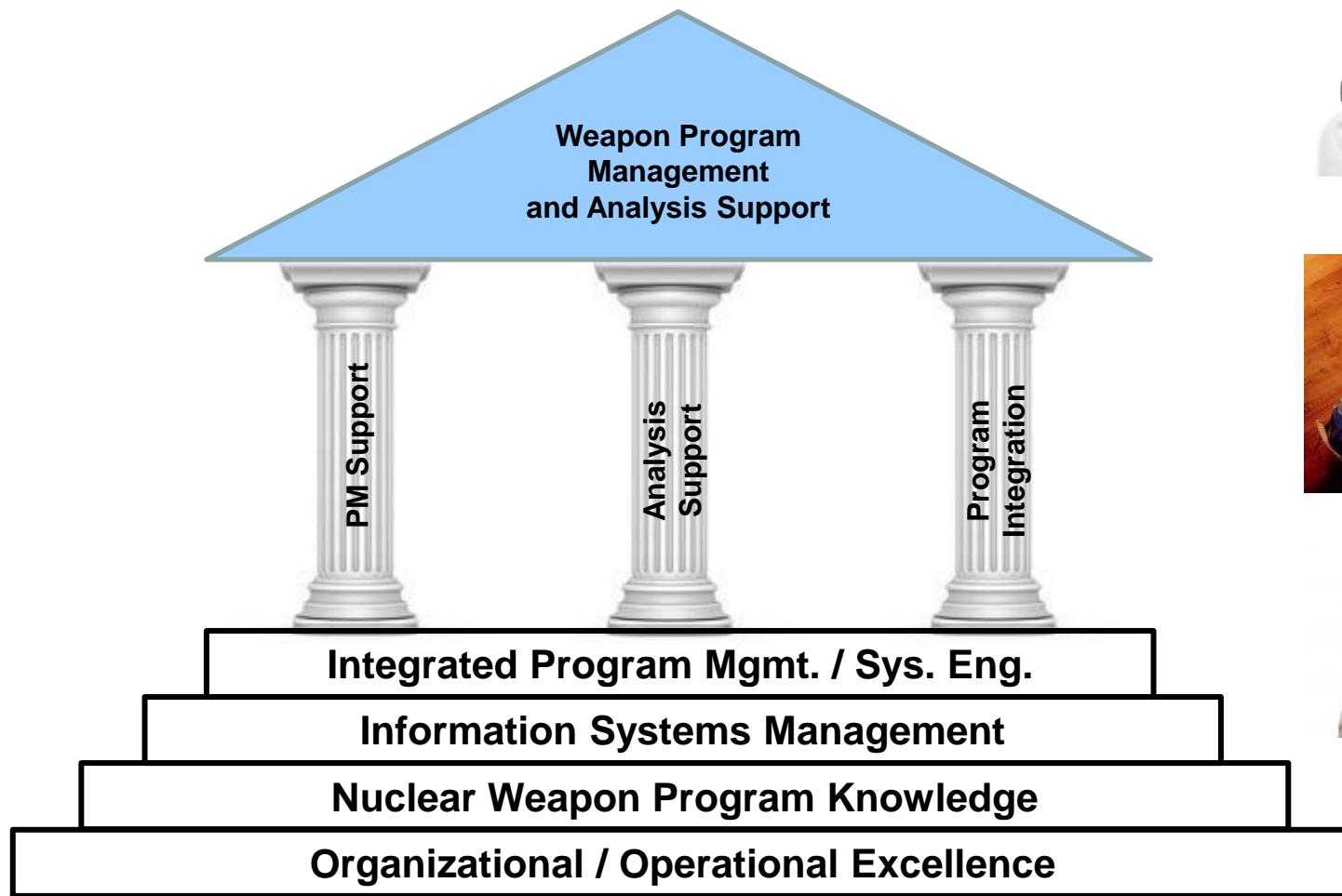


**Gas transfer
systems**



**Neutron
generators**

Integrated Program Management & Systems Engineering



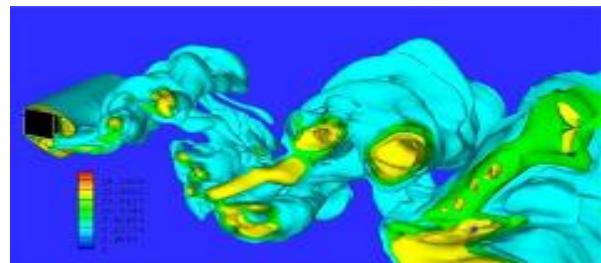
High reliability, high consequence of failure, challenging environments, and technology solutions

Facilities and Capabilities



Microelectronics and Microsystems

Design, fabricate, package, and test trusted semiconductor components



Computational simulation

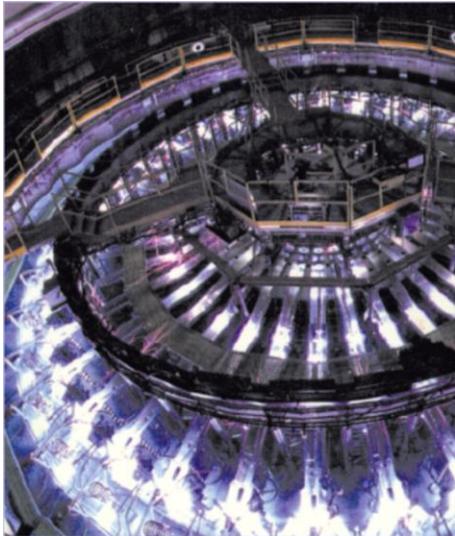
High-performance hardware and software tools to enable solutions requiring massively parallel computers



Environmental testing

Simulate environmental conditions and collect relevant data for systems, subassemblies, and components

Applied Radiation Sciences



Simulating
Radiation
Environments



Nuclear Reactor Safety
and Accident Testing

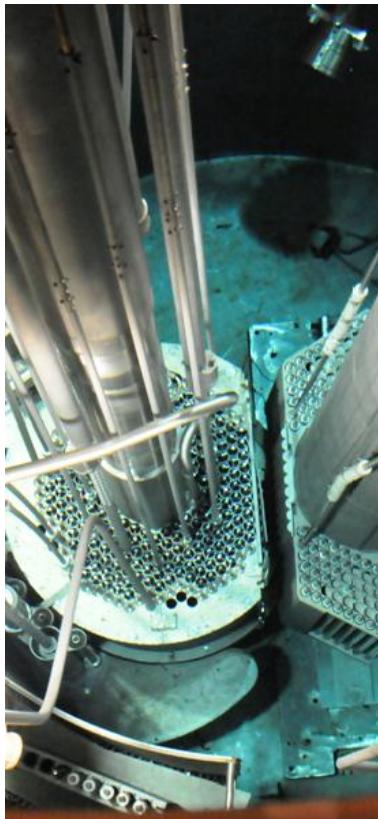


Designing and Testing
Nuclear Fuel

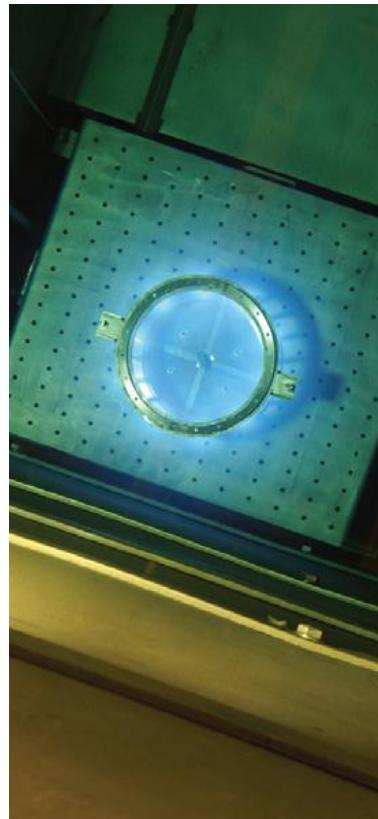


Designing and Modifying
Nuclear Reactors

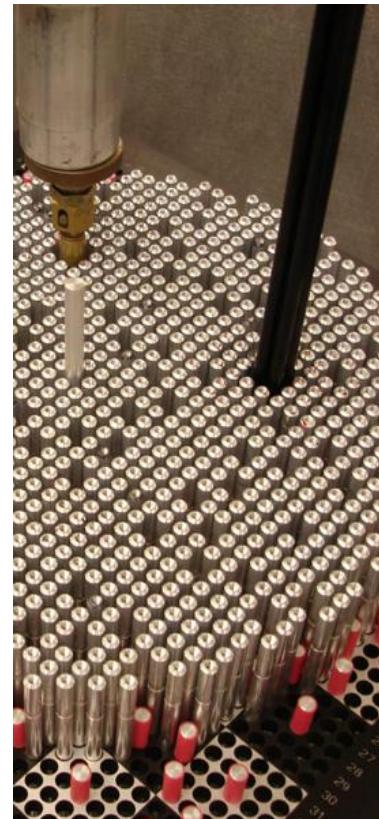
Unique Nuclear Environments



Annular Core
Research
Reactor (ACRR)



Gamma
Irradiation
Facility (GIF)

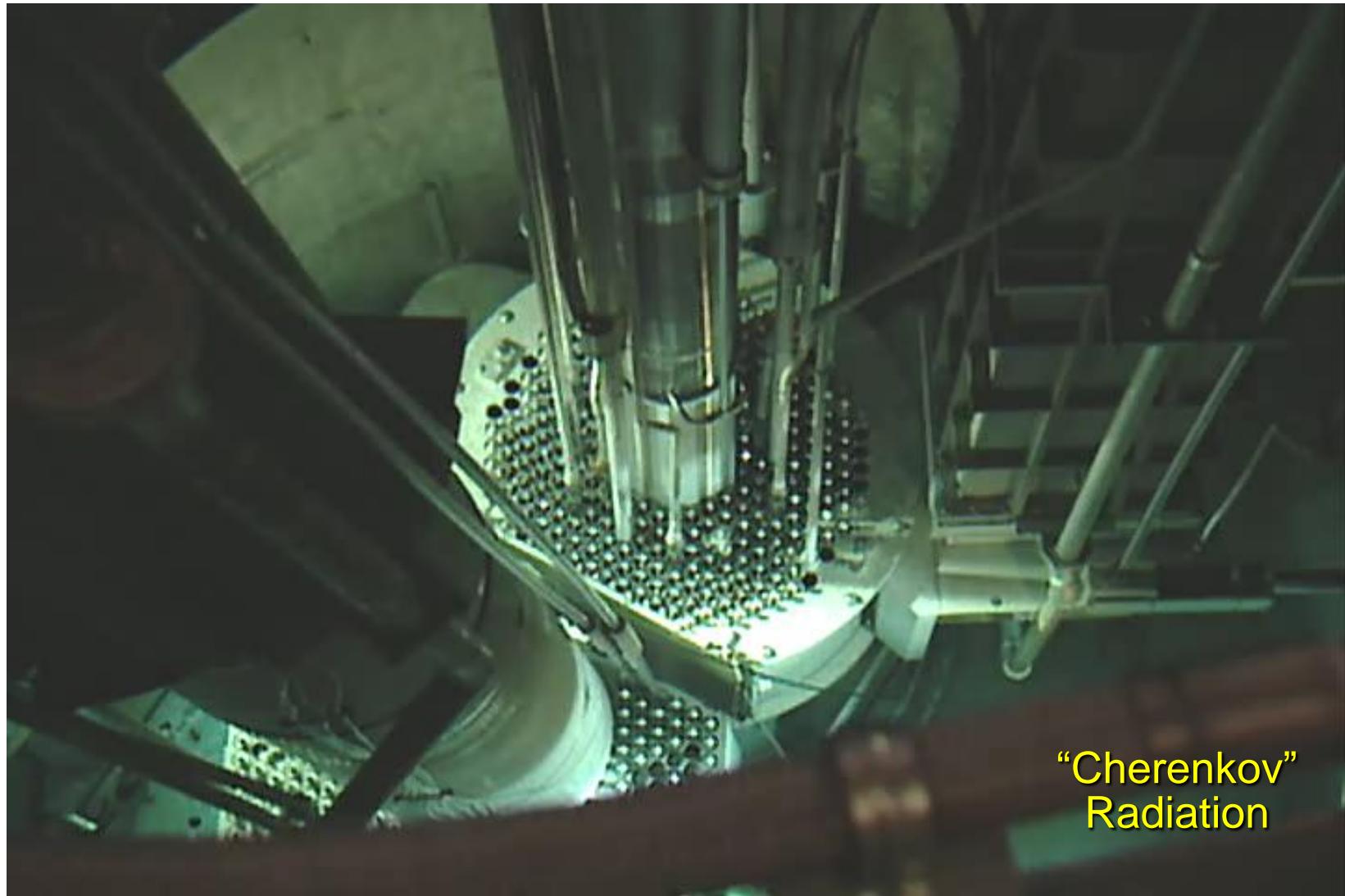


Sandia Pulsed
Reactor Critical
Experiments
(SPR/CX)



Radiation
Metrology Lab
(RML)

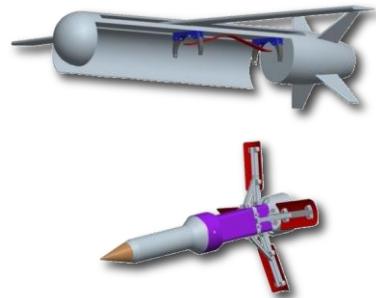
ACRR Pulse



Defense Systems and Assessments

Program Areas

- Information Operations
- Integrated Military Systems
- Proliferation Assessment
- Remote Sensing & Verification
- Space Mission
- Surveillance & Reconnaissance



Energy, Climate, and Infrastructure Security

Program Areas

- Infrastructure Security
- Energy Security
- Climate Security
- Enabling Capabilities



Areas of Expertise

- Modeling & Analysis, Cyber, Electricity Distribution, and Energy Assurance
- Renewables, Energy Efficiency, Energy for Transportation, and Nuclear Energy Systems
- Sensing & Monitoring, Carbon Capture, Sequestration, Modeling and Analysis, and Water
- Discovery Science & Engineering, Systems Analysis, and Regulatory & Policy



International, Homeland, & Nuclear Security

Program Areas

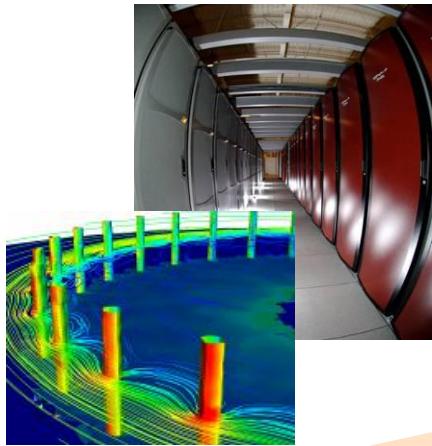
- Critical Asset Protection
- Global Security
- Homeland Defense and Force Protection
- Homeland Security

Areas of Expertise

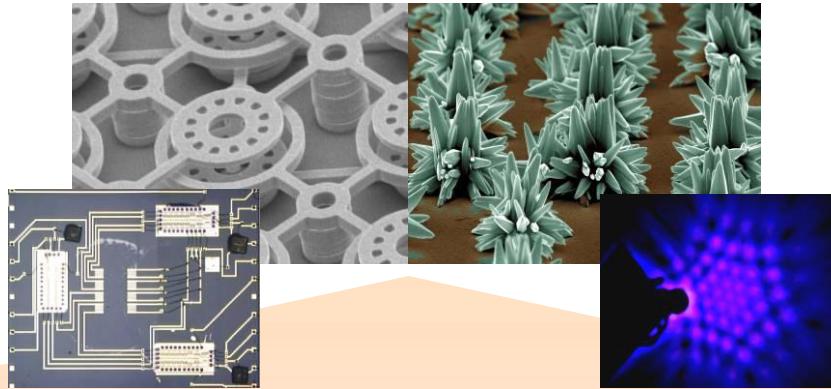
- Countering Bioterrorism
- Nuclear, Radiological, and Chemical Risk Reduction
- Nonproliferation and Arms Control
- Physical Security
- Emergency Response
- Systems Analysis and Engineering
- Border Security
- Aviation and Airworthiness Security



Research Disciplines Drive Capabilities



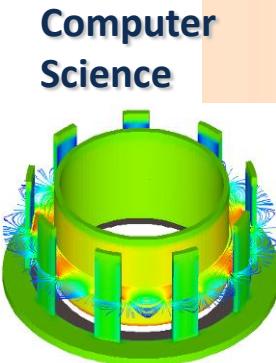
High Performance Computing



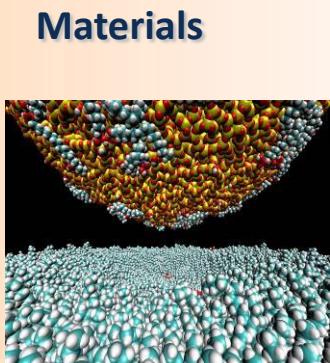
Nanotechnologies & Microsystems



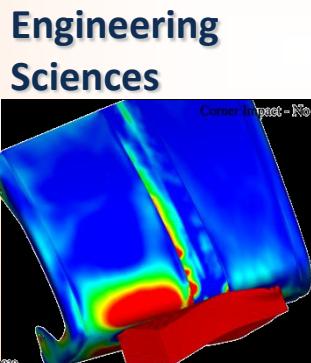
Extreme Environments



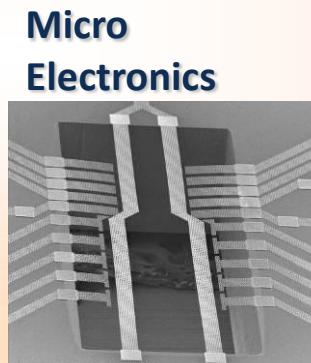
Computer Science



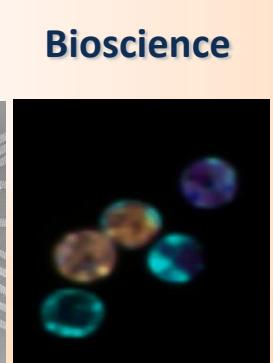
Materials



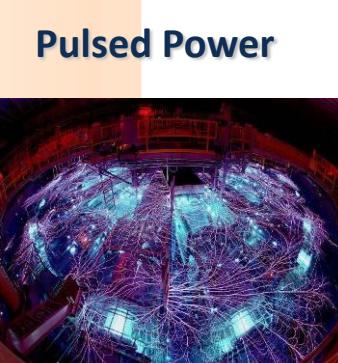
Engineering Sciences



Micro Electronics



Bioscience

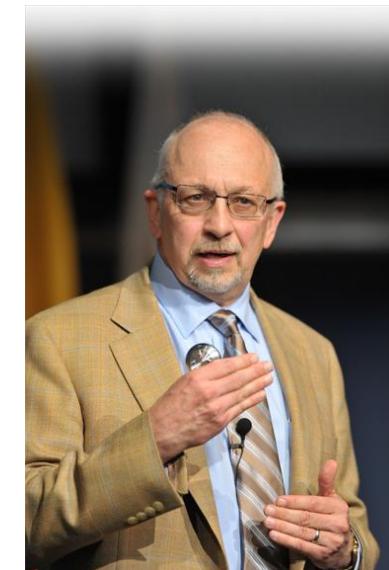


Pulsed Power

Research Disciplines

Partnerships & Collaboration

Accelerate Innovation



The People of Sandia Give Back

- United Way in 2011
 - New Mexico: >\$4.6M
 - California: \$250,000
- Lockheed Martin donations to nonprofit organizations – \$1.4M
- Volunteer hours in 2011– 108,000
- K-12 education partnerships
- Beginning our 12th habitat house in April 2012



United Way of Central New Mexico



University of Arizona



145 alumni work at Sandia, including 3 post-docs, 8 graduate interns and 1 undergraduate intern



2 doctoral grad fellows: Ari Posner, Hydrology and Water resources and Luke Walker, Materials Science and Engineering

Truman Fellow: Darin Desilets, Hydrology

Average of
\$671K/year in
research contracts



Campus Executive: Duane Dimos, Director, Materials Science & Engineering



Deputy Campus Executive and Recruiting Team Lead: Ray Finley, Manager, Earth Systems Department



Sandian Serving on Advisory Board:
David Robinson, member
Industrial Advisory Council

www.sandia.gov/careers

