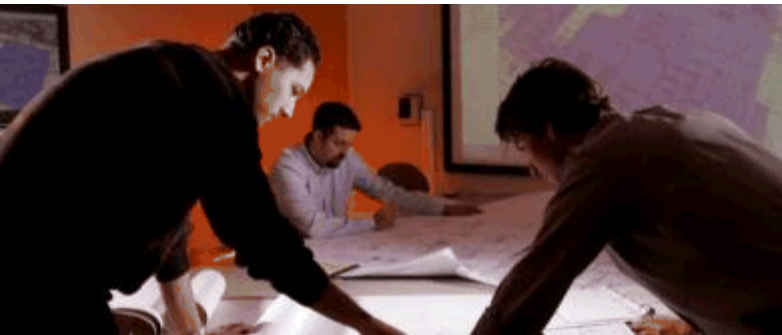


*Exceptional service in the national interest*



## Partnering with Sandia *November 2<sup>nd</sup>, 2012*

*Marcey Hoover, PhD  
Senior Manager, Surety Engineering*



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. SAND No. 2012-5130P

# Sandia's History

THE WHITE HOUSE  
WASHINGTON

May 13, 1949

Dear Mr. Wilson:

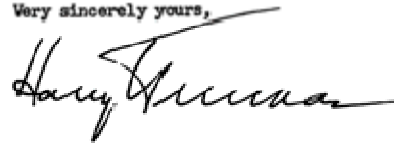
I am informed that the Atomic Energy Commission intends to ask that the Bell Telephone Laboratories accept under contract the direction of the Sandia Laboratory at Albuquerque, New Mexico.

This operation, which is a vital segment of the atomic weapons program, is of extreme importance and urgency in the national defense, and should have the best possible technical direction.

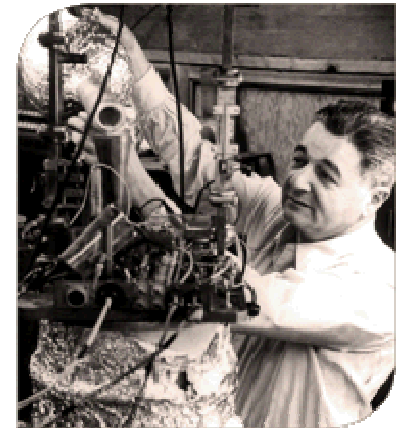
I hope that after you have heard more in detail from the Atomic Energy Commission, your organization will find it possible to undertake this task. In my opinion you have here an opportunity to render an exceptional service in the national interest.

I am writing a similar note direct to Dr. O. E. Buckley.

Very sincerely yours,



Mr. Leroy A. Wilson,  
President,  
American Telephone and Telegraph Company,  
195 Broadway,  
New York 7, N. Y.



Sandia  
National  
Laboratories

# Sandia is a Multidisciplinary National Security Laboratory

- Sandia develops technologies to:
  - Sustain and modernize the nuclear deterrent,
  - Prevent the spread of weapons of mass destruction,
  - Protect the national infrastructure,
  - Defend the national against terrorist threats,
  - Provide new capabilities to the armed forces, and
  - Ensure the stability of the nation's energy and water supplies.



Sandia's science, technology, and engineering help ensure that the nation maintains technological superiority and preparedness, which are critical to national defense, homeland security, and the nation's economic well-being.

# Sandia's Governance Structure



## Sandia Corporation

- AT&T: 1949–1993
- Martin Marietta: 1993–1995
- Lockheed Martin: 1995–present

Government-owned  
contractor-operated



Federally funded research  
and development center

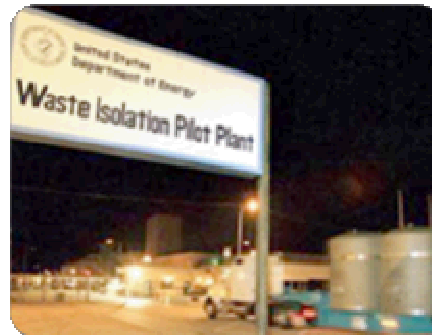


# Sandia's Sites

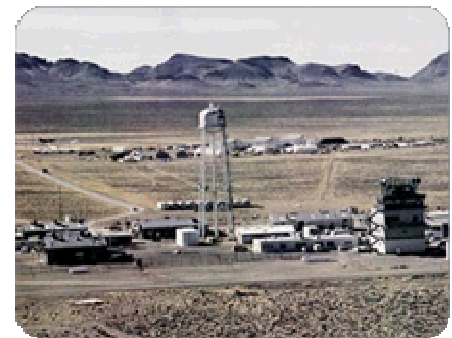
**Albuquerque, New Mexico**



**Carlsbad, New Mexico**



**Tonopah, Nevada**



**Livermore, California**



**Amarillo, Texas**



**Kauai, Hawaii**



# Our Workforce

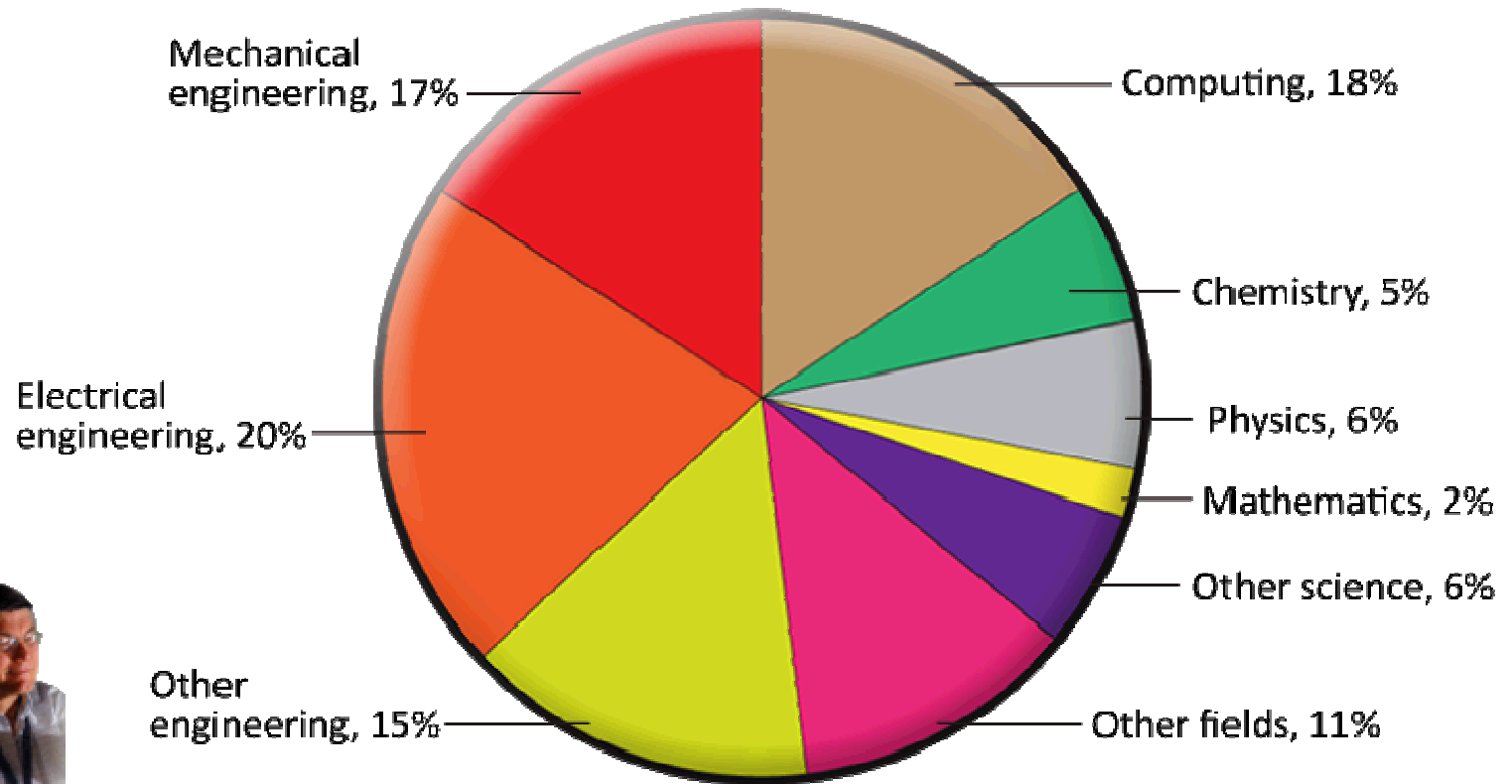
~170 Purdue alumni



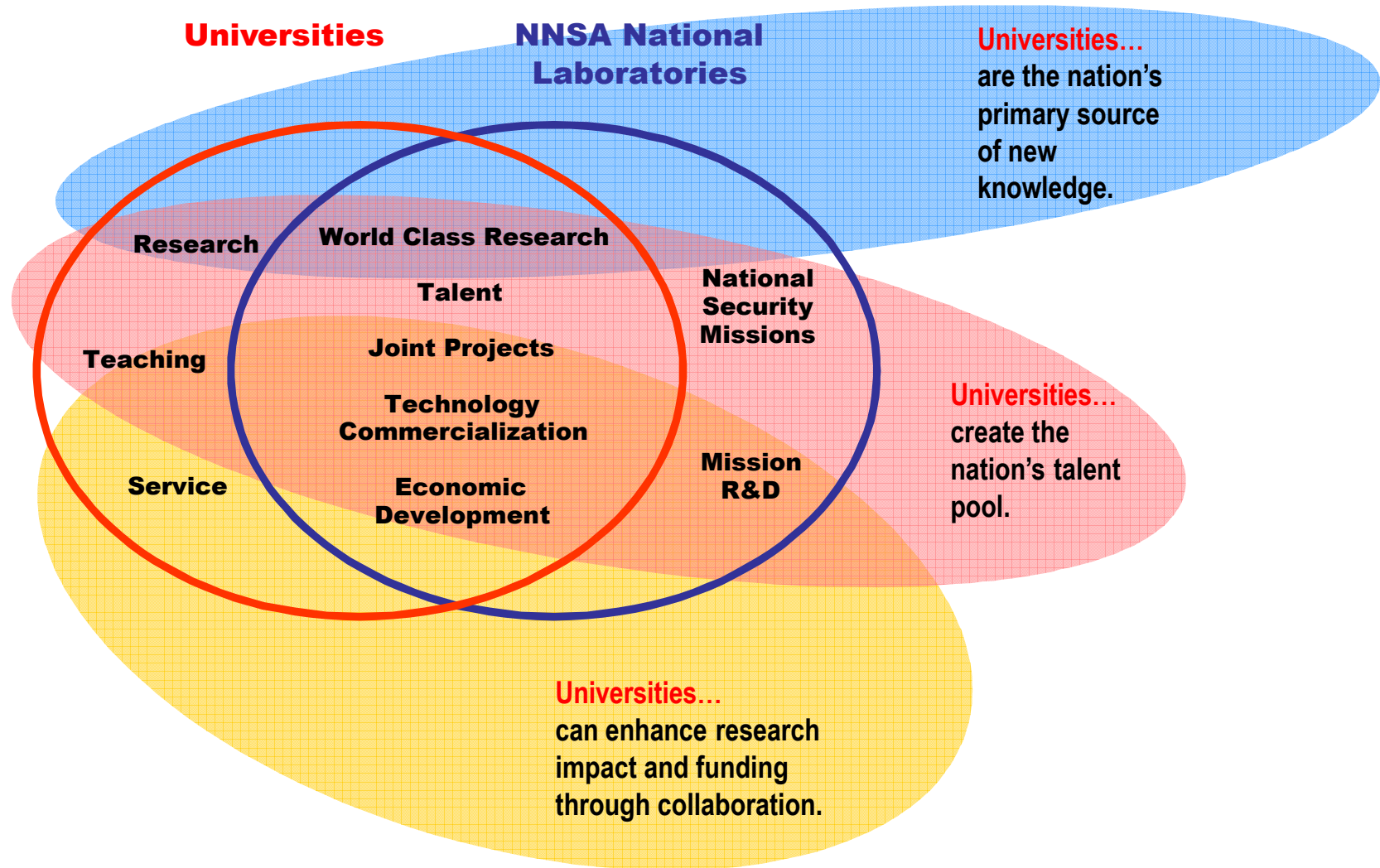
- Onsite workforce: 11,711
- Regular employees: 9,238
- Gross payroll: ~\$981M

*Data for FY12 through end of September*

## Research & Development staff(4,682) by discipline



# University Partnerships = World-class Science + Top Future Employees



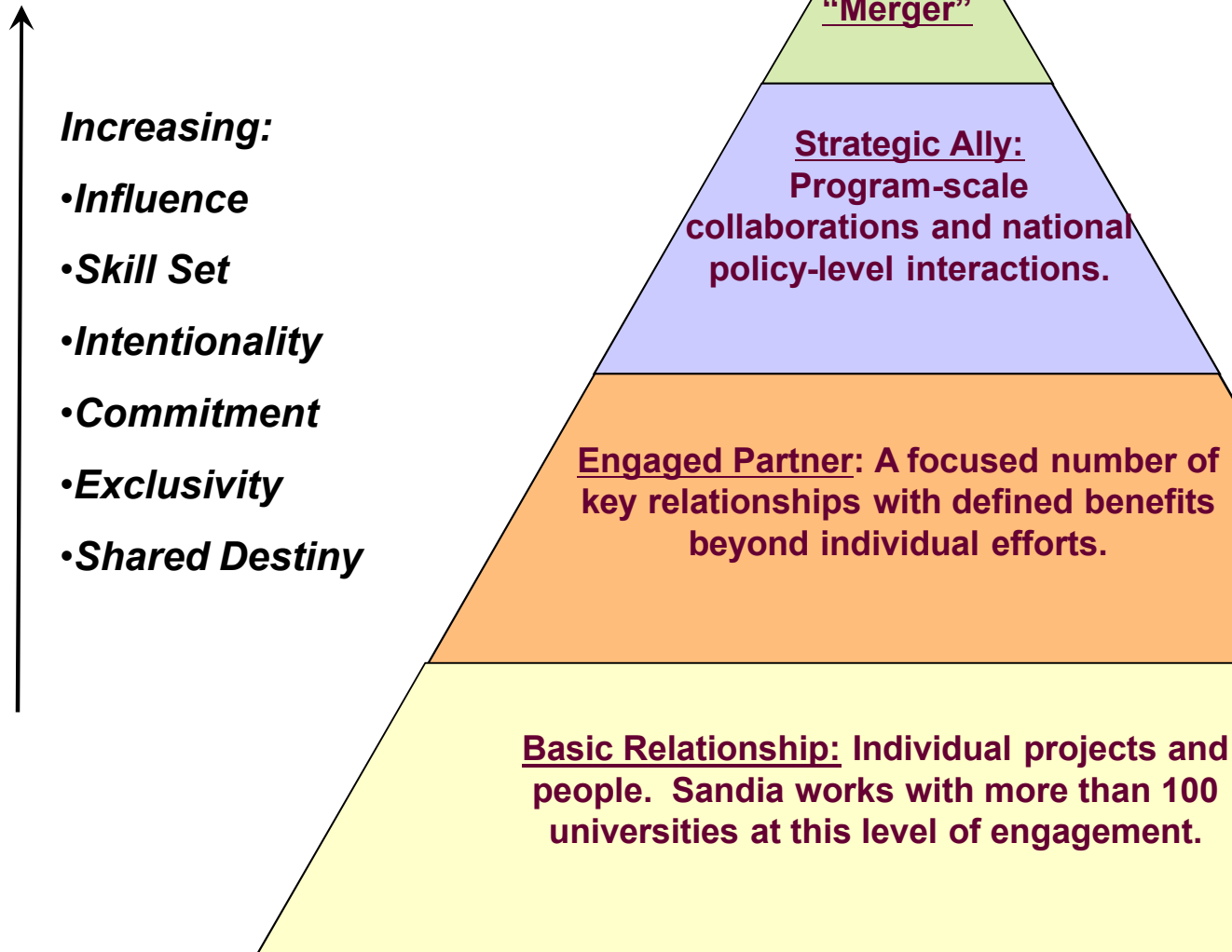
# Partnerships are Built upon Interactions: Students & Faculty

- Graduate Fellowships
  - ~ 80 annually
- Internships & Co-ops
  - ~ 800 technical interns annually
  - Year-round (semester/quarter) or summer
  - Annual Symposium
  - Critical Skills Institutes
- Post Doctoral appointments
  - ~ 175 on roll
  - 1-3 year appointments
  - 3 Truman Fellows annually
- Collaborative research
  - ~ \$25M annually, with ~100 universities
    - Purdue ~ \$500-750K/year
  - Mission related
- Sabbaticals and summer research appointments
  - ~ 20 appointments annually
  - 4 weeks to full year





# Basic Collaborations are the Foundation of our University Partnerships



# Tips for Partnering

- Do some simple research before contacting the Labs:
  - Who's doing research in your field of interest?
  - Determine if others from your institution are collaborating with a particular Lab. Obtain leads from them.
- Start at the “basic relationship” level: PI to PI
- Convince the PI that they need your research expertise
  - Be able to demonstrate how you might fill a research gap
- Have realistic funding expectations
  - The Labs' university partnership expenditures are less than 1% of the total budget
  - Many collaborations are unfunded or funded by a third party