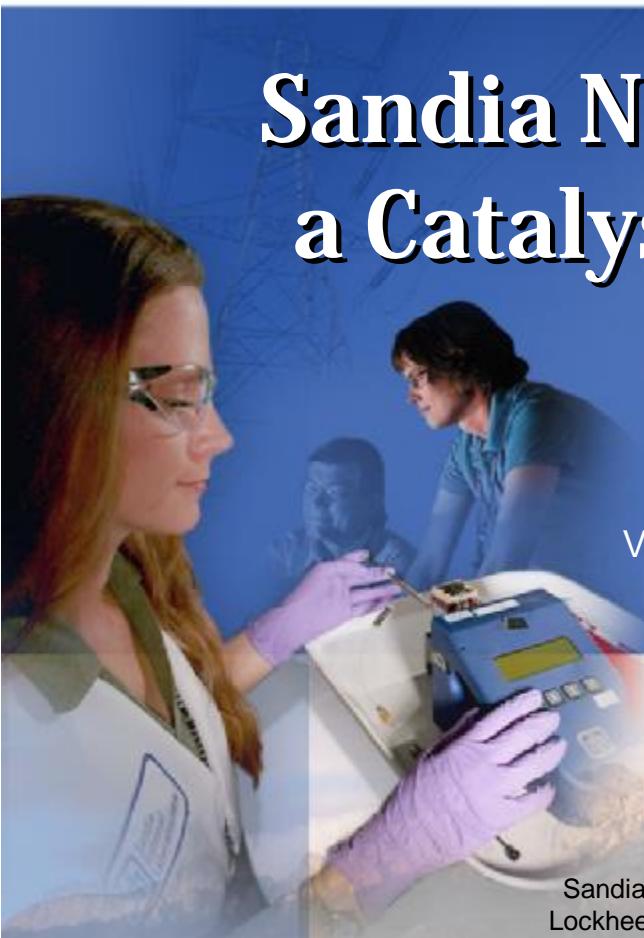




February 25, 2010  
The National Academies  
Clustering for 21<sup>st</sup> Century Prosperity

# Sandia National Laboratories as a Catalyst for Regional Growth



J. Stephen Rottler

Chief Technology Officer and  
Vice President of Science and Technology

Sandia is a multiprogram laboratory operated by Sandia Corporation, a  
Lockheed Martin Company, for the United States Department of Energy's  
National Nuclear Security Administration under contract DE-AC04-94AL85000.



Sandia National Laboratories



# National Security Mission Space

## Nuclear Weapons

*One Management Unit*

- Nuclear Weapons



## National Security Technologies & Systems

*Three Management Units*

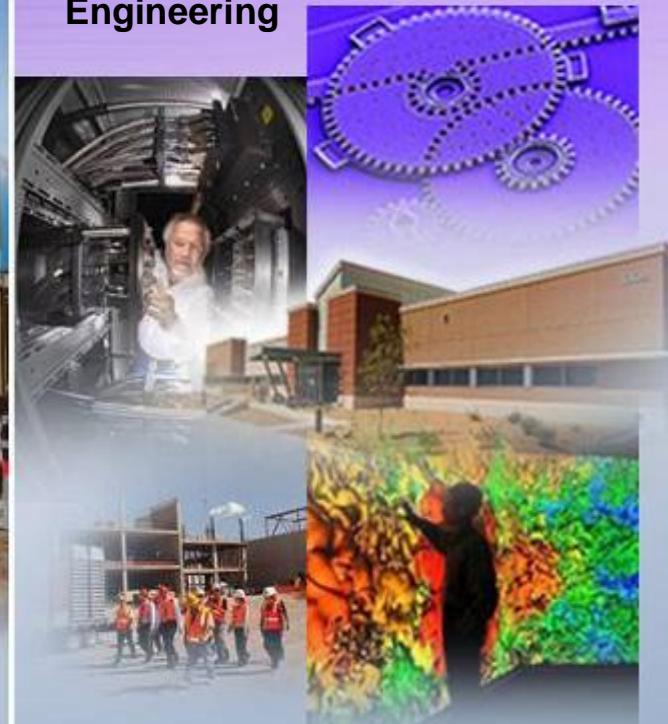
- Defense Systems and Assessments
- Energy, Resources, and Nonproliferation
- Homeland Security and Defense



## Laboratory Transformation

*Two Management Units*

- Integrated Enabling Services
- Science, Technology, and Engineering



Sandia National Laboratories



# Research Foundations Drive the Capability Base



## Strategic Capabilities



High  
Performance  
Computing &  
Simulation

Nanotechnologies and  
Microsystems

Extreme  
Environments

Computer  
Science

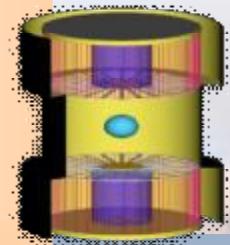
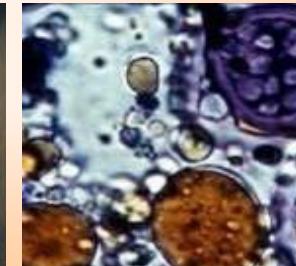
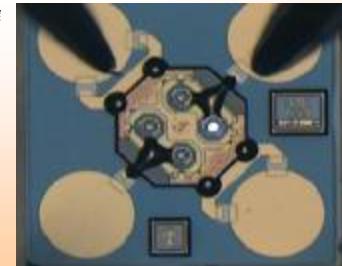
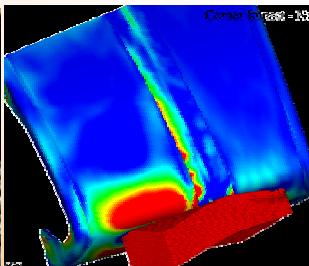
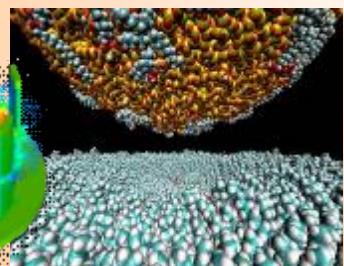
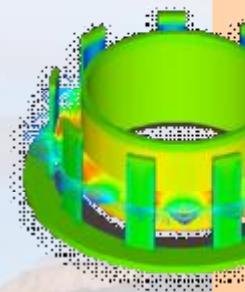
Materials

Engineering  
Sciences

Micro  
Systems

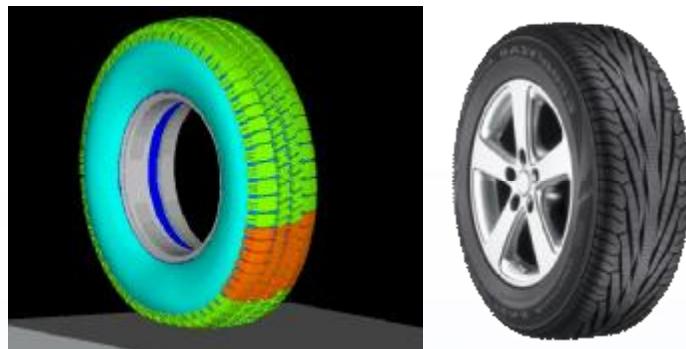
Bioscience

Pulsed  
Power

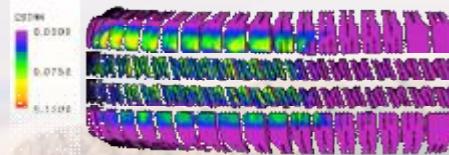
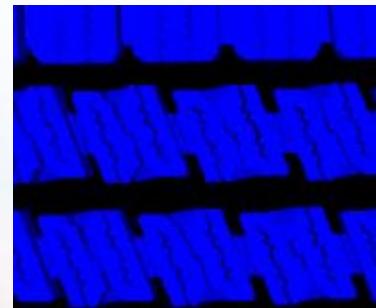


Research Foundations

# Industrial Partnerships Provide Strong Value to Sandia and its Partners



Assurance™  
Featuring  
TripleTred™  
Technology



P&G



CORNING  
ExxonMobil

Taking on the World's Toughest Energy Challenges.™



 Sandia National Laboratories



## Mechanisms That Sandia Uses to Impact the Regional Economy

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**SANDIA SCIENCE &  
TECHNOLOGY PARK**



**NMSBA**

Los Alamos National Laboratory  
Sandia National Laboratories

*Entrepreneurial separation  
to Transfer Technology*

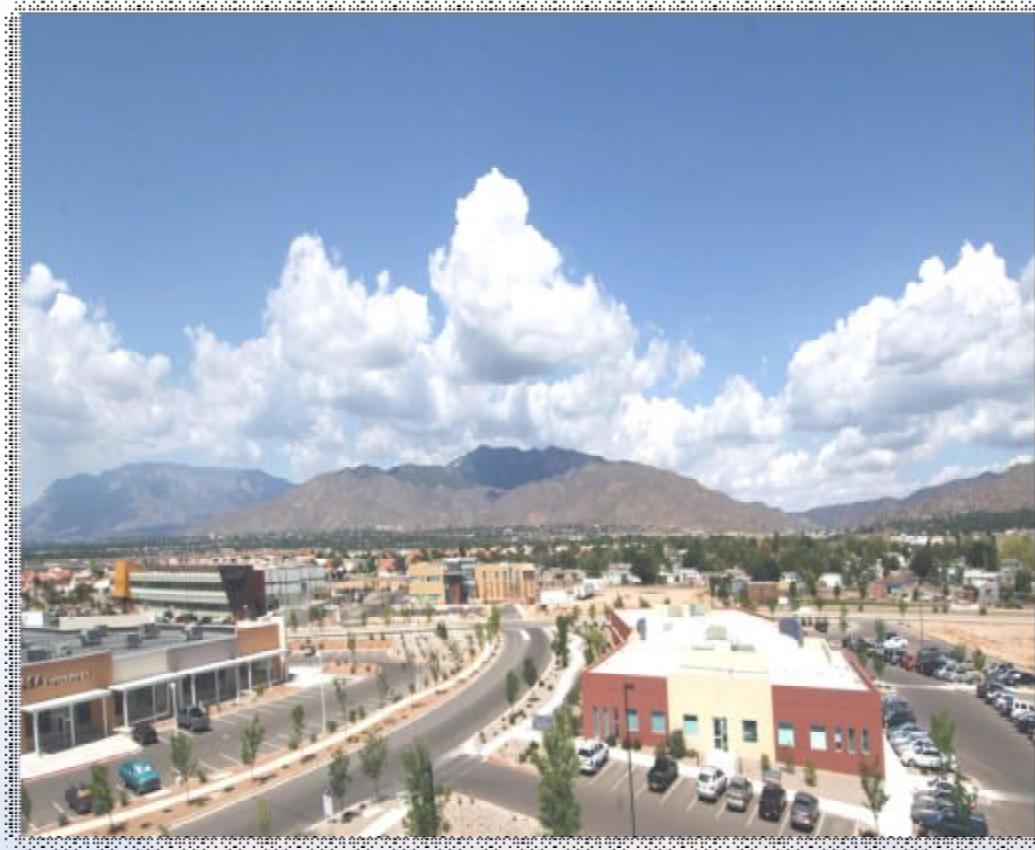
# LVOC/i-GATE



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# Sandia Science & Technology Park - NM



Currently: 1,942 Jobs

Ten Year Projection: 6,000 Jobs

- Public/Private Partnership
- 30 tenants
- Average annual salary is twice Albuquerque average



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# Technology Clustering Around Sandia - NM



Ktech



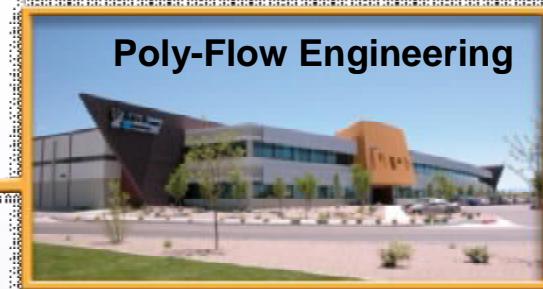
EMCORE



Sandia National Labs



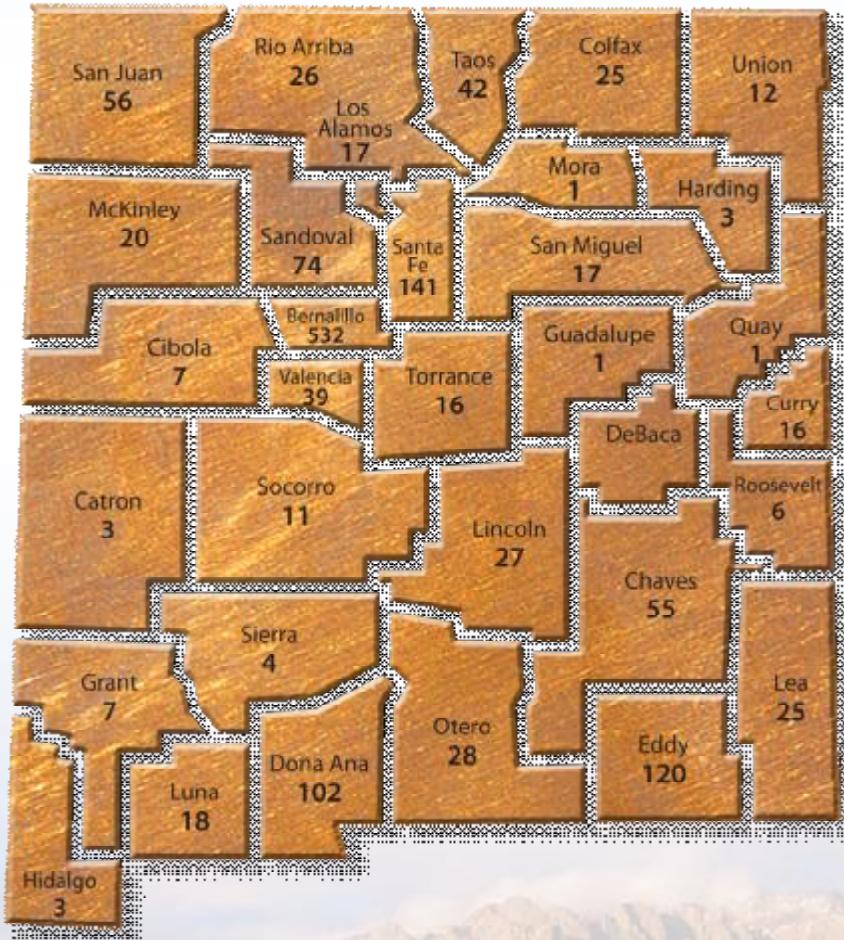
# Poly-Flow Engineering



TEAM Technologies



# New Mexico Small Business Assistance Program



§ \$2.4M State tax credit

§ Projects in every NM County

§ Return on investment to the State is \$1.34 for each dollar invested

§ 1020 small business jobs created/retained



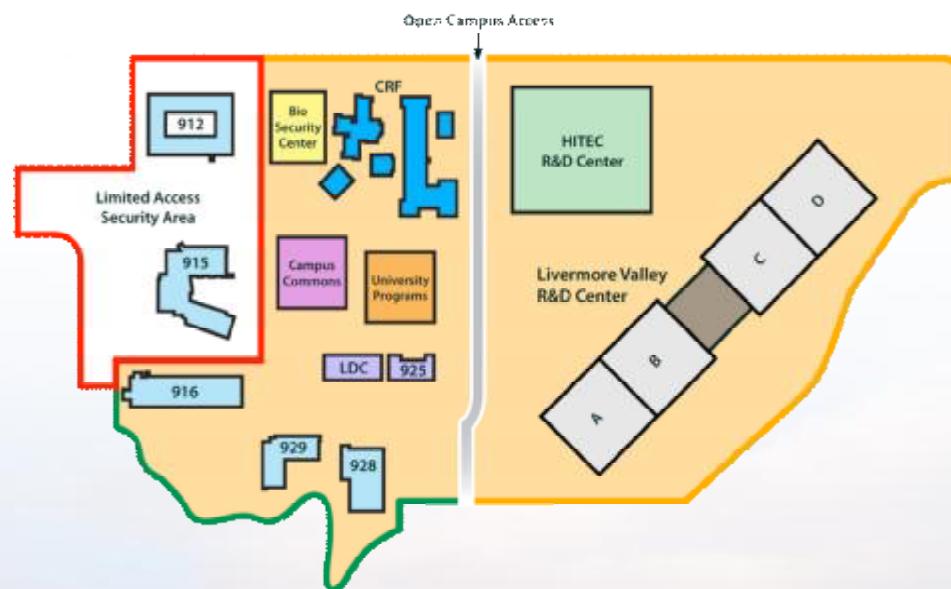
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# Livermore Valley Open Campus and i-Gate - CA

## § Livermore Valley Open Campus

### § i-Gate – Innovation for Green Advanced Transportation Excellence

- § Core of an Energy Research Cluster
- § Public/Private Partnership with City of Livermore, LLNL, and others



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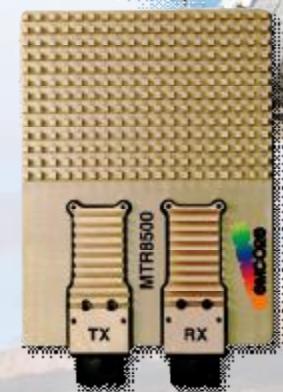
# Entrepreneurial Separation to Transfer Technology (ESTT)



- § 138 scientist and engineers have left Sandia through ESTT since 1994 in both NM and CA
- § 91 companies started up or expanded since 1994
- § More than 300 jobs created in past 5 years



# EMCORE Success Story



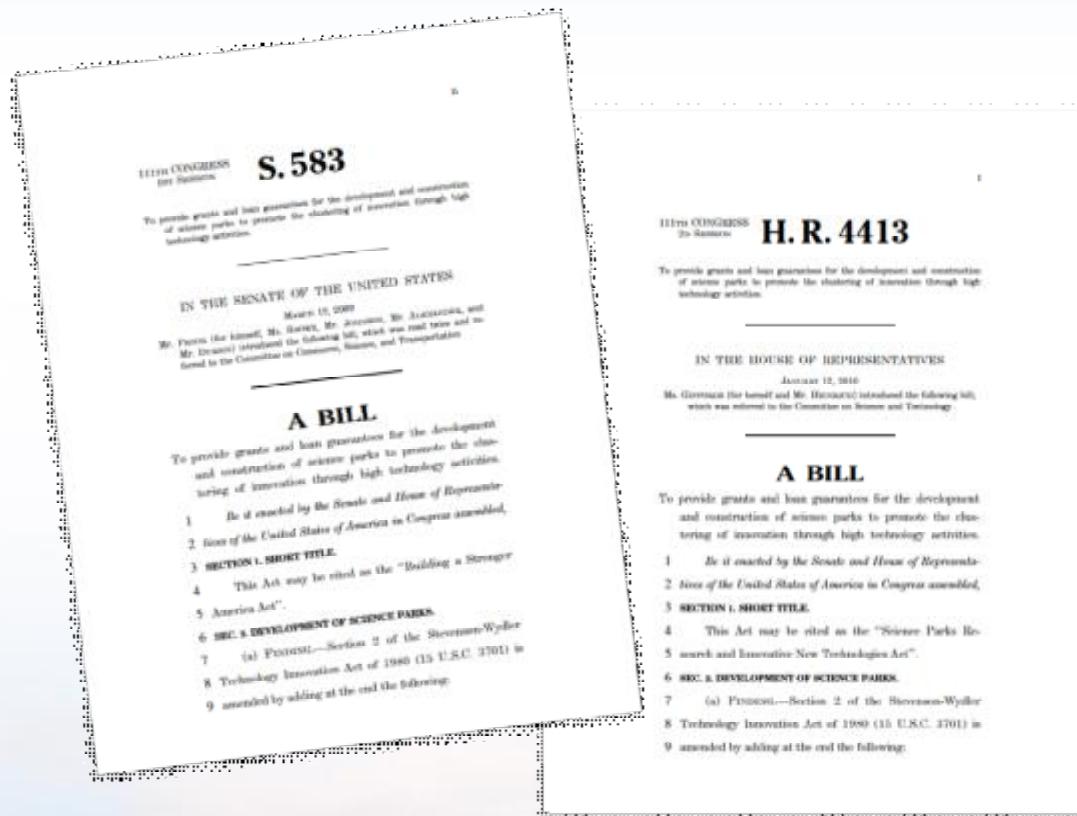
- § Sandian formed MODE in 1996 through the **ESTT** program
- § EMCORE purchased MODE
- § Licensed several technologies from Sandia
- § Located in the **SS&TP** and expanded several times (350 employees today)
- § Moved company headquarters to **SS&TP**
- § Received technical assistance through **NMSBA**



Sandia National Laboratories



# How We Can Build On Our Success



## § National Science Park Legislation

## § National Incentives for Lab/Industry Partnerships