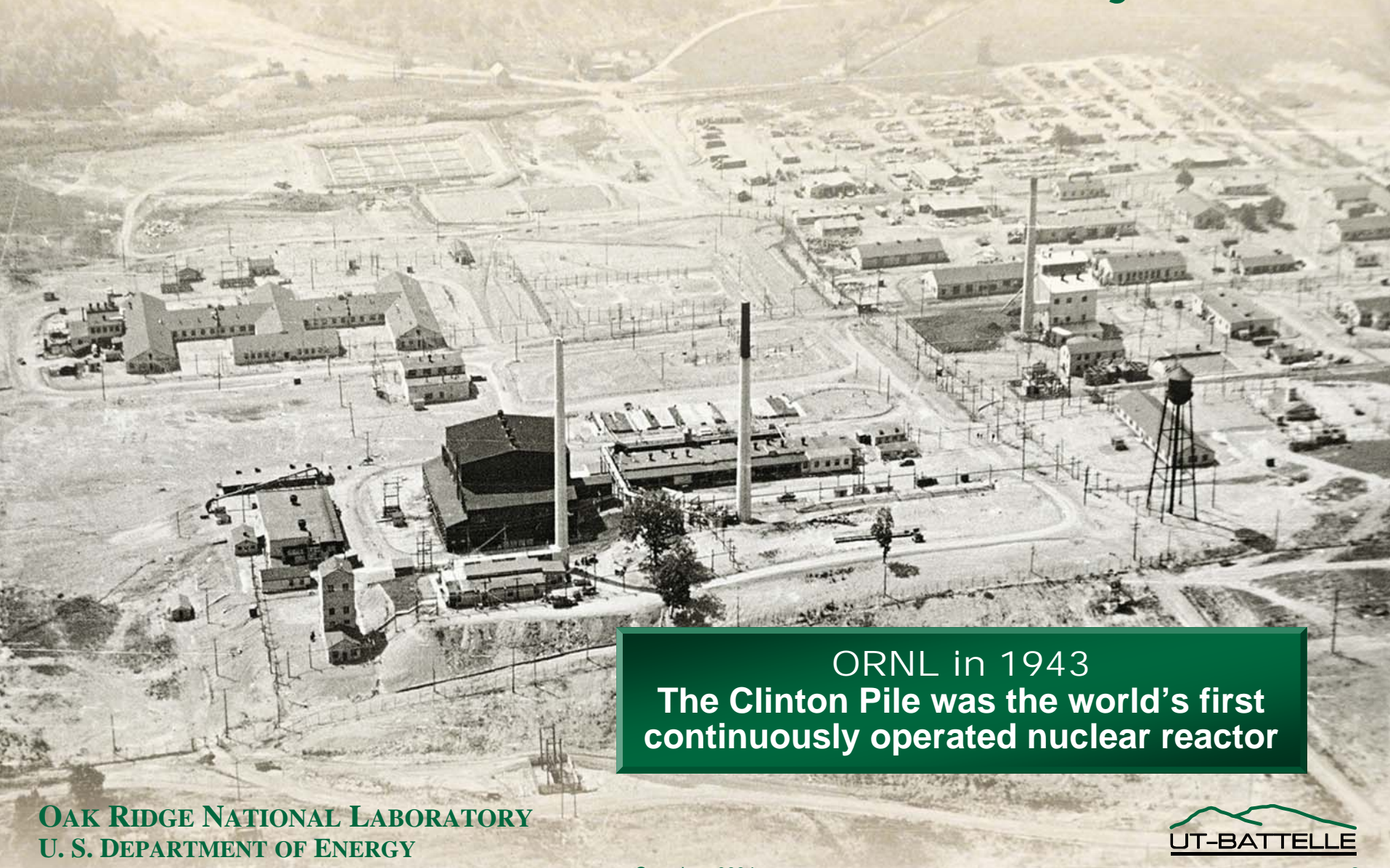


Oak Ridge National Laboratory: Past, Present, and Future

Keith Joy
Small Business Manager

Oak Ridge National Laboratory evolved from the Manhattan Project



ORNL in 1943
The Clinton Pile was the world's first
continuously operated nuclear reactor

Oak Ridge National Laboratory: Ready for the next generation of great science



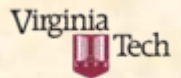
The UT-Battelle partnership brought a new team to ORNL



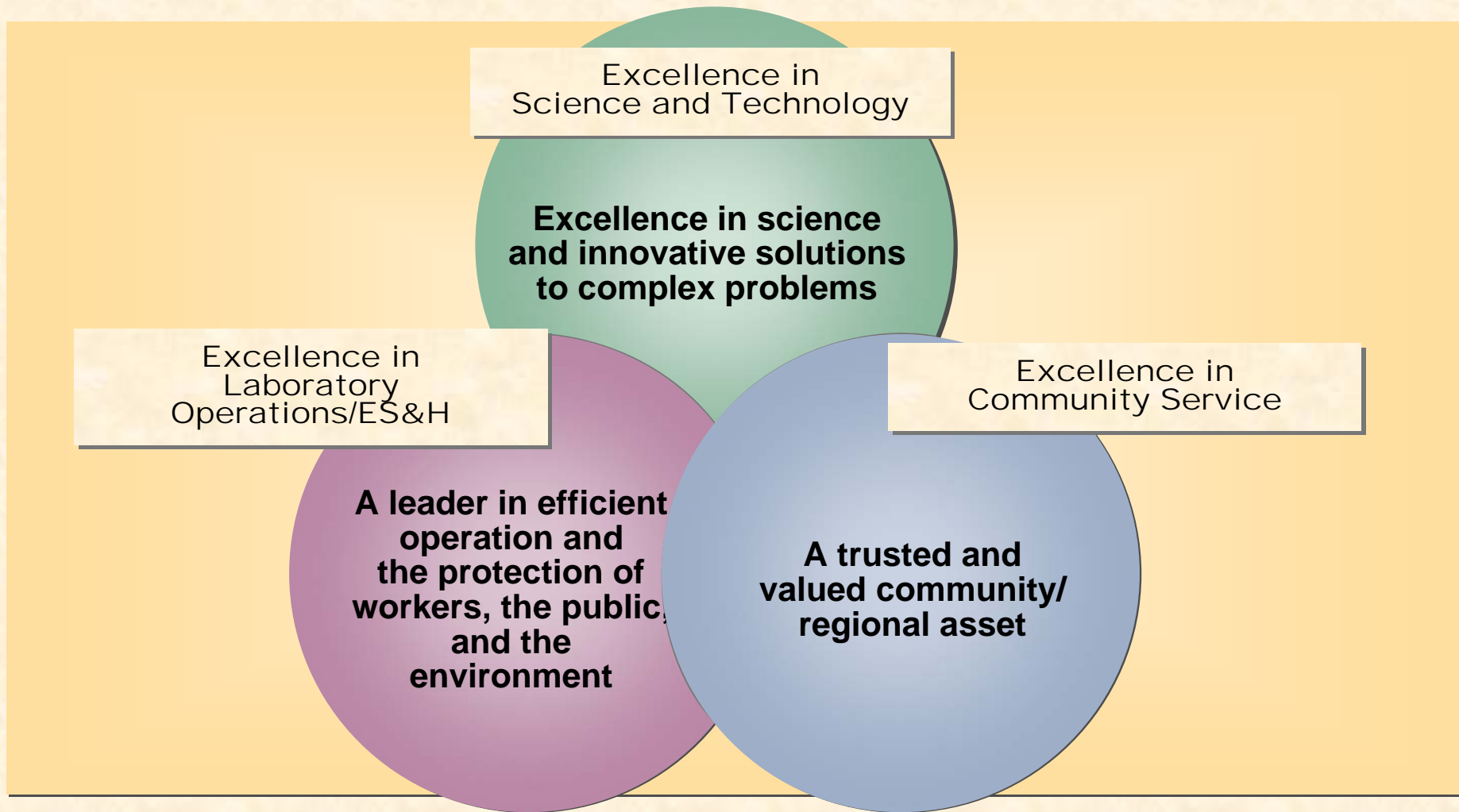
**The University of Tennessee
Knoxville, Tennessee**



**Battelle
Columbus, Ohio**



UT-Battelle's management philosophy: Simultaneous excellence



Today, ORNL is DOE's largest science and energy laboratory



- \$1 billion budget
- 4,100 employees
- 3,000 research guests annually
- Nation's largest unclassified scientific computing facility
- Nation's largest science facility: the \$1.4 billion Spallation Neutron Source
- Nation's largest concentration of open source materials research
- Nation's largest energy laboratory
- \$300 million modernization

We apply our strengths in science and technology to six major missions

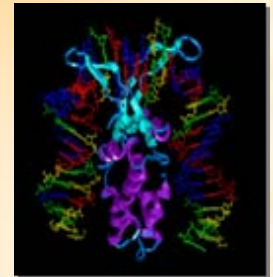
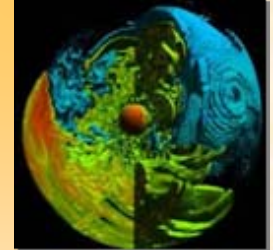
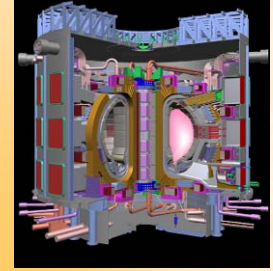
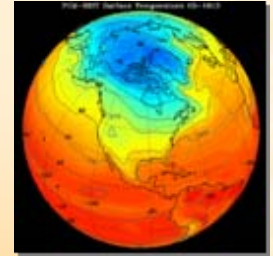
- **Delivering and sustaining the world's foremost center for neutron scattering**
- **Leadership in computational science and engineering at scale**
- **Leadership in microbial biology and proteomics, producing bio-based solutions to energy challenges and enabling the new field of “ecogenomics”**
- **Sustained leadership in materials science through discovery, synthesis, and characterization of materials at the nanoscale**
- **Leadership in advanced energy technologies through science**
- **Applying our science and technology base to deliver “first-of-a-kind” security technologies and implement arms control and nonproliferation programs**

Oak Ridge will soon lead the world in neutron scattering

- **Spallation Neutron Source**
 - Total cost: \$1.4 billion
 - Transitioning from construction (98% complete) to operation
 - On scope, on budget, on schedule
- **Upgraded High Flux Isotope Reactor: Complementary capabilities**
- **Joint Institute for Neutron Sciences: User gateway to SNS and HFIR**

We are at the forefront in computing and simulation

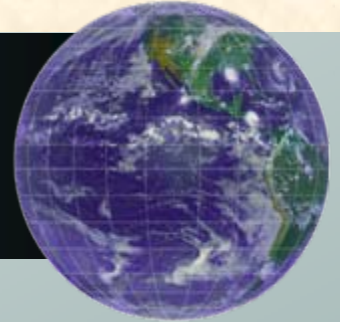
- **Leading the partnership to develop the DOE Leadership Computing Facility**
 - Delivering the world's best scientific computing capability
 - Exploring new technologies and architectures
- **Attacking key computational challenges**
 - Climate change
 - Fusion
 - Nuclear astrophysics
 - Materials sciences
 - Biology
- **Providing access to our computational resources through high-speed networking**



Our systems biology research extends from the molecule to the ecosystem

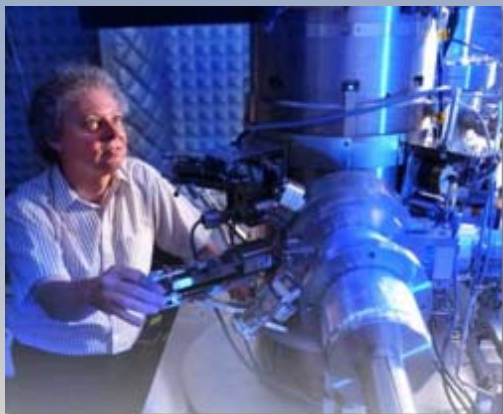
Understand biological systems and apply new knowledge to energy, environmental, and human health challenges

- **Identify the composition and function of “molecular machines”**
- **Use biological processes to**
 - Produce clean energy
 - Sequester carbon
 - Help clean up the environment
- **Understand how living organisms react to their environments**
- **Determine the genetic basis for complex traits**



We are deploying world-leading tools for materials R&D at the nanoscale

Advanced Microscopy Laboratory



- World's highest resolution microscopes
- Direct images of single atoms

Center for Nanophase Materials Sciences



- DOE's first nanoscale science research center
- Will use neutrons from SNS to study material properties

Joint Institute for Advanced Materials



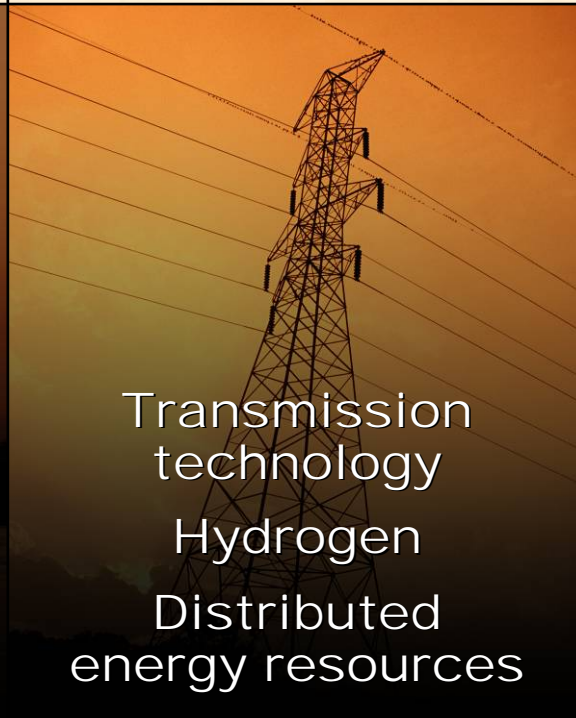
- To be constructed at UT's Knoxville campus
- Multidisciplinary materials R&D for transportation and energy

We address the energy challenges of the present . . . and the future

Generation

Distribution

Consumption



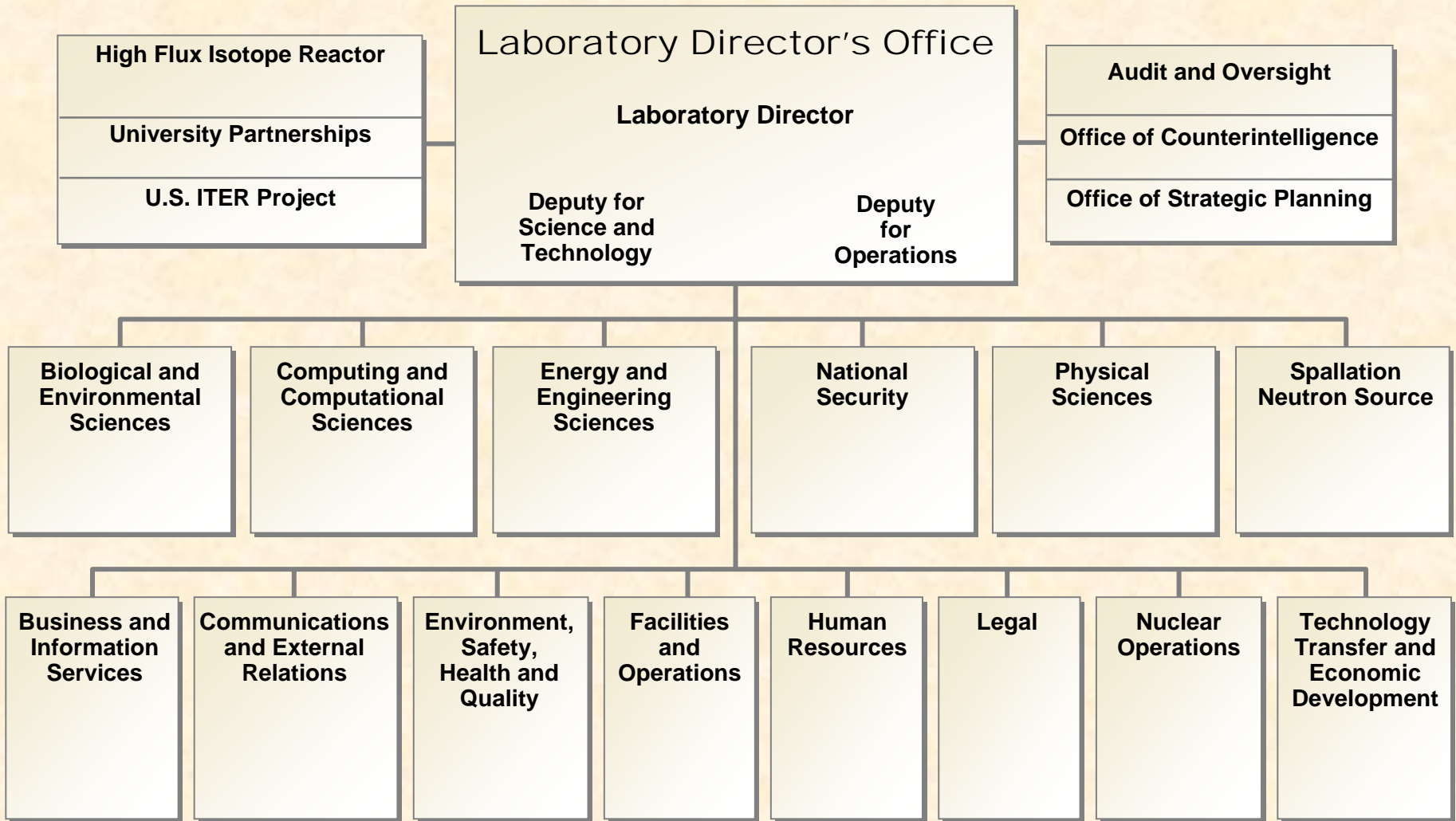
Supporting DOE's strategic goals
for energy security and independence


We apply our S&T resources to national and homeland security

- Detecting, preventing, and reversing the proliferation of weapons of mass destruction
- Deploying integrated systems for incident awareness, detection, and response
- Providing technology for detecting explosives at the part-per-trillion level
- Delivering enhanced protection and new capabilities to first responders and warfighters



Oak Ridge National Laboratory





*How To Do Business
with
UT-Battelle, LLC
Managing Contractor for
The Oak Ridge National
Laboratory*

Oak Ridge National Laboratory (ORNL) Small Business Program Office Mission

- **Advocate for Small Business**
- **Point of Contact**
- **Communicating Contracting Opportunities**
- **Managing the ORNL Mentor/Protégé Program**
- **Promoting partnerships with Minority Educational Institution/HBCU**



Types of Products We Buy

- **ADP Hardware**
- **Chemicals & Products**
- **Construction & Building Materials**
- **Electric Wire & Power & Distribution Equipment**
- **Electrical & Electronic Equipment Components**
- **Managed Hardware Program**
- **Office Supplies & Devises**
- **Pipe, Tubing, Hose, & Fittings**

Types of Services We Buy

- **ADP & Telecommunications**
- **Architect & Engineer**
- **Construction**
- **Education & Training**
- **Photo/Map/Print/Publication**
- **Professional/Administrative/Management Services**
- **Research & Development**
- **Transportation/Travel/Relocation**
- **Universities – Research & Development**



Mentor-Protégé Program



GEM Technologies, Inc.



Information International
Associates, Inc.

The ORNL Mentor-Protégé Program is a Department of Energy initiative and is designed to assist energy related firms in an effort to enhance their capability to perform contracts and subcontracts for ORNL and DOE facilities.

Marketing to ORNL

- Register your business in the Central Contractor Registration (CCR) database at www.ccr.gov.
- Visit the ORNL Small Business web site at www.ornl.gov/smallbusiness.
- Register your business in the Supplier Information Database in the website.
- Send your capability documents to the Small Business Office.



Marketing to ORNL - continued

- **Make an appointment to visit the Small Business Office (optional).**
- **Visit our web site for Upcoming Subcontracting Opportunities.**
- **Keep in touch with the ORNL Small Business Program Manager.**



Oak Ridge National Laboratory
Small Business Programs Office
1009 Commerce Park Drive, Suite 350
Oak Ridge, Tennessee 37830

Fax: (865) 576-0096

Web site: www.ornl.gov/smallbusiness/
www.ornl.gov/adm/contracts

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