Building Research Partnerships with Oak Ridge National Laboratory (ORNL)



by

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October 27, 2010



BRIEFING OUTLINE

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- Our Knowledge & Technology Assets
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- A Partner's Persistent Stress Questions
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What is Oak Ridge National Laboratory (ORNL)?

- ORNL is a Department of Energy (DOE)
- National Laboratory
- Federally Funded Research and Development Center (FFRDC)
- U.S. Government-owned and leased research facility
- Managed and operated by UT-Battelle, LLC(*) under a DOE performance-based prime contract
- Authorized by DOE to furnish reimbursable research or technical services with a separate DOE approval for each activity
- Source for effective and cost beneficial science-based solutions
- Operates in the public interest, with objectivity and independence
- Operates free from conflicts of interest
- (*) An equal non-profit partnership between University of Tennessee and Battelle Memorial Institute



Our Knowledge & Technology Assets

- The U.S. government investment at ORNL yields
 - Knowledge and know-how base (staff expertise, data, tools, unique insights)
 - Intellectual property (patents, copyrights)
 - Multidisciplinary synergy across science areas
 - Different approaches to getting the job done
 - Extensive unique science facilities (e.g., User Facilities) and special capabilities



How We Work

- Informal Information sharing (no commitments)
- "Work for Others" (WFO) Agreements
- Cooperative Research and Development Agreements
- Licenses
- Subcontracts
- User Facility Agreements proprietary & non-proprietary
- General Employee Loan Agreements (GELA)



A Partner's Persistent Stress Questions

- "What business problem keeps me awake at night?"
- "What are my top research or technology challenges for which I do not have real solutions?"
- "How does this affect my bottom line?"



Our Partnership Objectives

- Bring research results & technology enhancements to market
- Use scientific findings to enhance U.S business competitiveness in the global market
- Enhance knowledge management and transfer it to the U.S. private sector
- Leverage U.S. government technology investments to make our Partners more technology-competitive in the U.S. and global markets



Partner Oversees Problem Identification & Validation Cycle

- The Partner identifies the research or technology challenges that must be addressed or assessed
- ORNL research staff works informally with the partner, at no cost initially, to identify potential solutions
- ORNL determines & recommends
 - Can we solve the research or technical challenge?
 - What is the probability of success?
 - What is the cost for a prototype or an initial solution?
- The Partner decides whether to proceed and on what time and funding agenda
- Flexibility exists throughout the process as needed



What does ORNL bring to the Table?

- DOE'S most diverse multi-program research laboratory:
- Basic Research
- Applied Research
- Applied Development
- World-class energy research capability
- The world leader in neutron science
- Incredible Biotechnology and Bioengineering expertise
- State of the art national/homeland security classified facilities
- Extensive knowledge of national/homeland security technology needs
- Environmental security
- World-class materials science research and facilities
- World-class Supercomputer computational & network capability
- Specialized consulting in multiple scientific fields



What does ORNL bring to the Table?

• Research access to:

- Rest of the DOE National Laboratory System
- University research through University of Tennessee (UT) component of UT-Battelle, LLC
- Seven Research Universities (<u>Duke University</u>, <u>Florida State University</u>, <u>Georgia Institute of Technology</u>, <u>North Carolina State University</u>, <u>University of Virginia</u>, <u>Vanderbilt University</u>, <u>Virginia Polytechnic Institute and State University</u>) <u>With Special core relationships to ORNL</u>
- National Transportation Research Center (NTRC)
- Battelle Corporation and Affiliates expertise through Battelle Component of UT-Battelle, LLC
- Universities U.S.-wide through Oak Ridge Institute of Science (ORISE)
- User Facilities



How We Can Help Partners

By Supporting Mentoring or Research:

Establish WFO Agreement - set up as a Basic Ordering Agreement, where ORNL is a subcontractor to your organization

Use General Employee Loan Agreement – GELA

Establish a Cooperative Research and **Development Agreement (CRADA)**

Licensing Arrangements



How We Can Help Partners

• By Supporting Program Development:

- Furnish White Papers/Statement of Capabilities
- Use GELA for Bid/Proposal Preparation
- Can be a direct-cited partner in Broad Agency Announcement (BAA) type or research grant solicitations
- Can be cited as potential government-furnished services on an RFP if previous subcontract is already in place and if the soliciting federal contracting officer does not object. ORNL has no active role in input to RFP response.
- Can also set up agreements where your organization is a subcontractor to ORNL (true Funds-in, Funds-out arrangement).
- Can support your Federal sponsor by being your subcontractor.



How We Can Help Partners

By Supporting Testing and Experimentation:

- Conduct fundamental or applied research at ORNL.
- Develop prototypes at state-of-the-art or state-ofknowledge.
- Access special user facilities.
- Bring on board more research agents or scientific capabilities (e.g., other National Laboratories).



Summary

- ORNL wants to work with market-oriented partners
- ORNL has extensive specialized scientific and unique research capabilities available
- Partners can tap into the ORNL knowledge base
- Partners can use flexible agreement mechanisms to meet their business needs

