

Research Partnerships at BNL

NSLS Industry Workshop

April 8, 2014

Michael J. Furey

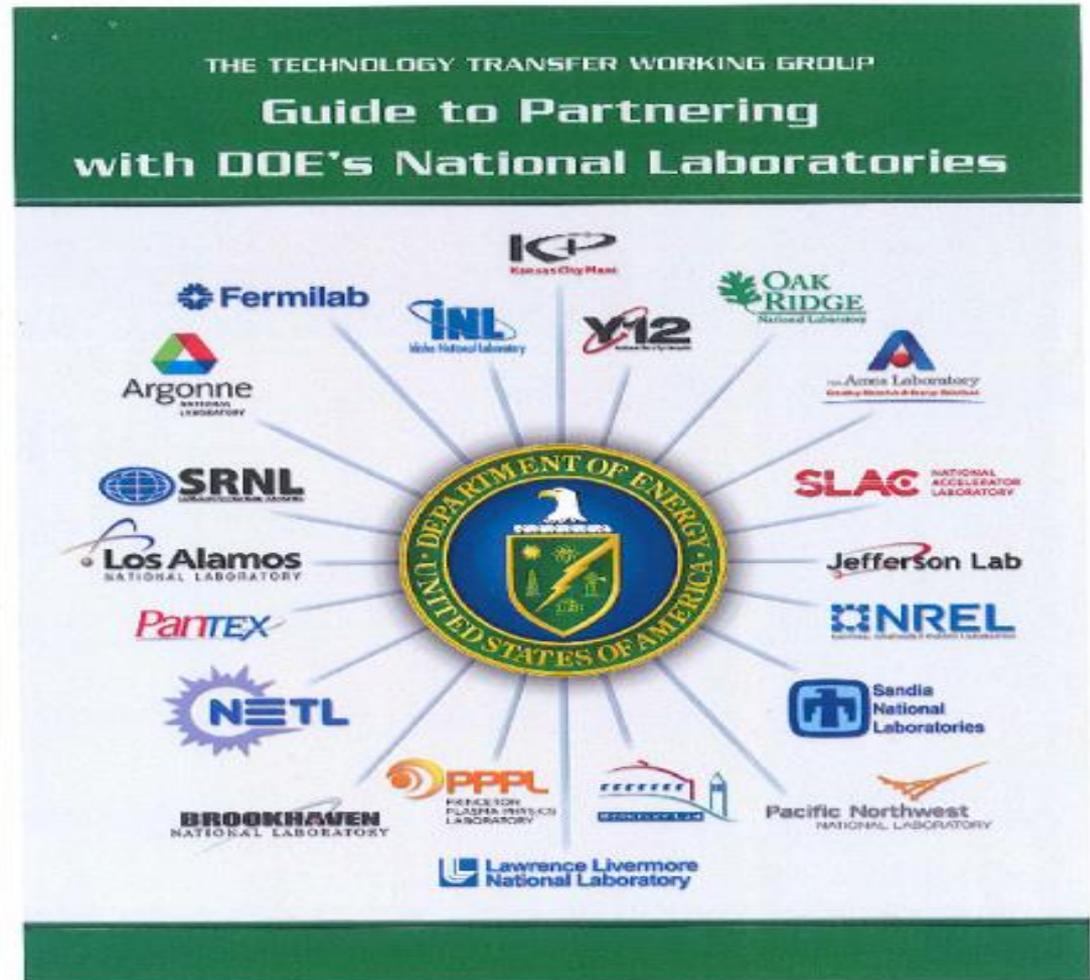


U.S. DEPARTMENT OF
ENERGY

Office of
Science

Research Partnerships at BNL

- Partnering Mechanisms
- Small Business Partnering Programs
- Partnering for Growth
- BNL Partnering Resources



Cooperative Research and Development Agreements (CRADA)

- A CRADA is a collaborative agreement that allows BNL and non-federal partners to optimize their resources, share technical expertise, access intellectual property, and advance the commercialization of federally developed technologies.
- Cooperative research program with both BNL and non-federal partner having specific roles and responsibilities detailed in a Statement of Work.
- Parties are obligated to protect each other's Proprietary Information, and research results may be designated as Protected CRADA Information which cannot be publically released for 5 years.
- Each Party retains title to its own inventions. Partner has option to negotiate an exclusive license to BNL CRADA inventions in a specified field of use.

Work for Others (WFO) Agreement (Non-Federal)

- A WFO Agreement is a fee-for-service contract that enables non-federal sponsors to pay BNL to perform a defined scope of work or tasks that draw upon BNL's unique facilities, equipment, and personnel.
- WFO Agreements are “best efforts” contracts
- WFO Agreements are full cost reimbursement contracts. Advance payment is required.
- Right to inventions are specified.
- DOE review and approval will confirm that WFO project is complementary to DOE missions, will not negatively impact BNL programs, will not place BNL in competition with private sector, and will not create a detrimental future burden on DOE resources.

Agreements to Commercialize Technology (ACT)

- ACT is a pilot program at BNL which enables BSA to conduct privately-sponsored research for non-federal sponsors at BSA risk.
- ACT will support a wider range of BNL's partnerships as BSA can negotiate business-appropriate terms with sponsors in more flexible agreements.
- BSA may accept certain risk under ACT agreements, such as payment terms, project deliverables, performance guarantees, indemnification, advance payments, etc. BSA may negotiate a fee beyond the direct cost of work at BNL to compensate for additional risk assumed.
- DOE approves ACT proposal and related documentation, but does not review and approve ACT agreements.

User Facility Agreements (UFA)

- UFA permits outside users from industry, academia, and other government agencies to conduct research using BNL's unique experimental research equipment and facilities (NSLS, RHIC, CFN)
- User covers all costs associated with using the facility for conducting proprietary research. Non-proprietary research at designated user facilities is at little or no cost to user.
- User retains rights to inventions under both proprietary and non-proprietary agreements.
- DOE must approve proprietary UFA.



Small Business Partnering Opportunities

- Small Business Innovation Research (SBIR) and Small Business Technology Transfer Research (STTR) programs are highly competitive opportunities for domestic small business to participate in the Federal R&D arena and realize commercial potential for new technologies.
- DOE SBIR/STTR grants for Phase I proposals (technical merit, feasibility) normally do not exceed \$150K for 6-9 month project, and Phase II proposals (R&D program) do not exceed \$1,000,000 over 2 years. Success in Phase I leads to Phase II funding opportunity.
- BNL has been successful in partnering with small business on SBIR and STTR proposals.
 - SBIR encourages, but does not require Small business to partner with research institution such as BNL. Small business may subcontract no more than 33% of Phase I grant and 50% of Phase II grant.
 - STTR requires small business to partner with research institution and small business must subcontract 30-60% of grant.

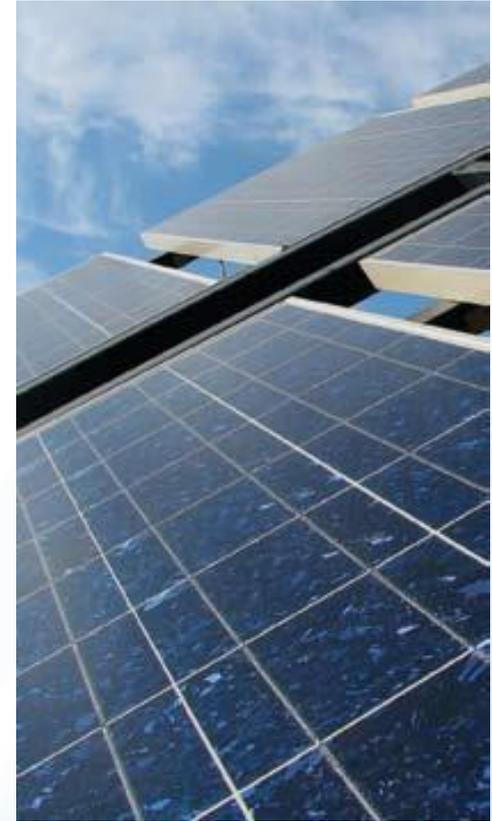
Federal Agency SBIR/STTR Budgets

Agencies with SBIR & STTR	
Department of Defense (DoD)	\$ 1.1 B
Department of Health and Human Services: National Institutes of Health (NIH)	\$717.0M
Department of Energy (DOE), including ARPA-E	\$188.3M
National Aeronautics and Space Administration (NASA)	\$161.8 M
National Science Foundation (NSF)	\$150.6 M
Agencies with SBIR only	
U.S. Department of Agriculture (USDA)	\$19.3M
Department of Education (ED)	\$13.4M
Department of Homeland Security (DHS): Science and Technology Directorate (S&T) and Domestic Nuclear Detection Office (DNDO)	\$12.6M
Department of Transportation (DOT)	\$8.6M
Department of Commerce: National Oceanic and Atmospheric Administration (NOAA) and National Institute of Standards and Technology (NIST)	\$4.7M

Partnering for Growth

Long Island Solar Farm (LISF)

- LIPA funded the construction of 37MW solar power facility at BNL
- BNL entered into 2 CRADAs with operator of LISF, BP Solar
- BNL has entered into a CRADA with the Electric Power Research Institute (EPRI) to provide advanced monitoring data from LISF
- BNL is receiving a \$1M grant from the Empire State Development Corp. (ESDC)
- NYSERDA is funding a new WFO project



BNL Partnering Resources

Prep and Risk System

- Prep and Risk process was implemented in FY2013 to provide a uniform system across BNL that was supportive of PI's in creating successful proposals.
 - PI's consider proposal plans and requirements
 - Provides needed assistance through early engagement of support staff and expert advisors
 - Prepares BNL for successful project execution
- Over 800 proposals have been entered into Prep and Risk
- Prep and Risk System will evolve over time based on feedback from system users and the Prep and Risk Steering Committee.

BNL Partnering Resources

Business Development and Analysis Office

- Manage Prep and Risk System
- Federal WFO proposals, agreements, funding, and contract administration
- Non-Federal WFO, CRADA, and ACT proposals, agreements, funding, and contract administration
- Support entire Project Life Cycle from Prep and Risk through project close-out.

Business Operations

- Proposal Support; Point of Contact with BHSO
- Budget Development
- Contract Administration
- Project Management

Technology Commercialization and Partnerships

- Technology licensing, entrepreneurship and start-ups

Intellectual Property Legal Group

- Invention disclosures, patents, NDAs

Proposal Center

- Assistance in developing proposal strategy and in preparing a high-quality proposals that are responsive to sponsor's funding opportunities

Guide to Partnering with DOE's National Lab

- www.bnl.gov/techtransfer/docs/doing-business.pdf