Battelle Family of DOE Laboratories

Presented to
WM 2011

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Director, ORNL Small Business Programs

Phoenix, AZ
March 2, 2011
Global enterprise

- Applying science and technology to real-world problems
- Managing machinery of scientific discovery and innovation
- Creating commercial value by bringing new technologies to international marketplace

• Non-profit, charitable trust formed by Will of Gordon Battelle in 1925

• Generates $6.5 billion annually in global R&D

• Oversees over 22,000 employees in 130 locations worldwide
What We’ve Done – Where We’ve Been

- Developed new materials
- Improved and created entire industries
- Pioneered new technologies

- Metals and materials including armor plating for U.S. tanks in WWII
- Fuel for Nautilus, the first nuclear submarine
- Xerography
- Early compact disc technology
- Fiber-optics technology for telecommunications
- Increased fuel cell performance and fuel cell materials
- Affordable clean water purification
- Drug delivery technology
- Threat detection for people/infrastructure
What We’re Doing – Where We’re Going

- We apply science and technology through Global Businesses
- We manage the machinery of scientific discovery and innovation through Global Laboratory Operations
- We create commercial value through Battelle Ventures

- Spallation Neutron Source
- World’s 2nd fastest unclassified supercomputer
- Relative Heavy Ion Collider
- National Synchrotron Light Source
- Environmental Molecular Sciences Laboratory
Points of Contact

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Brookhaven National Laboratory

Located on a 5,300-acre site on eastern Long Island, New York, Brookhaven Science Associates/Brookhaven National Laboratory is a Department of Energy, Office of Science multidisciplinary laboratory established in 1947 for the peacetime exploration of science.

February 2011
Home to seven Nobel Prizes, Brookhaven conducts research in the physical, biomedical, and environmental sciences, as well as in energy technologies and national security.

Presently, the Laboratory’s most important new project is the National Synchrotron Light Source II (NSLS-II), which will be the world’s brightest synchrotron when it becomes operational in 2015.

The NSLS is where thousands of researchers from industry and academia come annually to use beams of x-ray, infrared and ultraviolet light to study materials from computer chips to proteins.
Brookhaven National Laboratory
Winner of the 2009 SBA’s Dwight D. Eisenhower Award for Excellence

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Register in our self registration database, at:
www.bnl.gov/ppm/sbreg.asp
Idaho National Laboratory

- One of only 10 DOE multiprogram labs
- DOE’s designated lead lab for nuclear energy research, development and demonstration
- A major contributor in national and homeland security, alternate and renewable energy and science and technology
- Annual budget approx. $960M
- 4,300 scientists, engineers, technicians, and other staff
- Three S&T campuses on 890 mi² site
INL – The National Nuclear Laboratory

Developing world-class Nuclear Energy capabilities

Fostering education, research, industry, government and international collaborations to produce the needed investment, programs and expertise

Preeminent Internationally-Recognized Nuclear Energy RDD&D Laboratory

Major center for National and Homeland Security technology RDD&D

Lead clean energy systems RDD&D laboratory and a regional resource

RDD&D: Research, Development, Demonstration & Deployment
Marketing Strategies

Steps to Initiating Business with the INL

1. Register your business in the Central Contractor Registration (CCR) database.

2. Email your capabilities statement to small.business@inl.gov better acquaint us with your company and your products and/or services.

3. Contact the Small Business Program Office’s Stacey Francis (208-526-8564) to discuss potential opportunities posted on the Procurement Opportunity web pages or arrange a meeting.
Knowledge-based Marketing

Researching INL Procurement Opportunities

- Department of Energy’s Acquisition Forecast
  http://hqInc.doe.gov/support/SmallBusUtil.nsf/

- INL Procurement Opportunities
  http://www.inl.gov - Working with INL – Procurement Services – Procurement Opportunities

- ICP Procurement Opportunities
INL Small Business Awards

2009 M&O Small Business Program Manager of the Year

2010 DOE Mentor of the Year
THE NATIONAL RENEWABLE ENERGY LABORATORY (NREL)
NREL’s Mission and Strategy

• The National Renewable Energy Laboratory (NREL) is the nation’s primary laboratory for renewable energy and energy efficiency research and development (R&D).

• NREL's mission and strategy are focused on advancing the U.S. Department of Energy's and our nation's energy goals. The laboratory's scientists and researchers support critical market objectives to accelerate research from scientific innovations to market-viable alternative energy solutions.

Please visit us at: www.nrel.gov
Technology Development Programs

NREL R&D Portfolio

**Efficient Energy Use**
- Vehicle Technologies
- Building Technologies
- Industrial Technologies

**Renewable Resources**
- Wind and water
- Solar
- Biomass
- Geothermal

**Energy Delivery and Storage**
- Electricity Transmission and Distribution
- Alternative Fuels
- Hydrogen Delivery and Storage

**Foundational Science and Advanced Analytics**
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Core Capabilities

- Chemical and Molecular Sciences
- Chemical Engineering
- Large-Scale User Facilities/Advanced Instrumentation
- Biological Systems Science
- Climate Change Science
- Applied Materials Science and Engineering
- Applied Nuclear Science and Technology
- Advanced Computer Science, Visualization, and Data
- Systems Engineering and Integration
- Subsurface Science
PNNL delivers solutions to America's most intractable problems in energy, national security and the environment. Through the power of interdisciplinary teams, PNNL advances science and technology to make the world a better place.

**Mission Outcome**
- Strengthen U.S. scientific foundations for innovation
- Increase U.S. energy capacity and reduce dependence on imported oil
- Prevent and counter acts of terrorism and the proliferation of weapons of mass destruction
- Reduce environmental effects of human activity and create sustainable systems

**Examples**
- Controlling molecular processes for energy and environmental issues atom-by-atom
- Advancing biomass conversion to infrastructure-ready fuels
- Detecting nuclear and radiological materials at borders and ports
- Predicting and mitigating the impact of energy development and climate change
FY2011 Small Business Goals
Small: 50.2%
Small Disadvantaged: 5%
Woman-Owned: 5%
HUBZone: 3%
Veteran-Owned: 3%
Service Disabled, Veteran-Owned: 3%

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Website: http://www.pnl.gov/contracts/smallbusiness/
Solicitations > $100k: https://ebs.pnl.gov/advertised.aspx
Supplier Registration: https://ebs.pnl.gov/
ORNL is DOE’s largest science and energy laboratory

- $1.3B budget
- 4,350 employees
- 3,900 research guests annually
- $350 million invested in modernization
- World’s most powerful open scientific computing facility
- Nation’s largest concentration of open source materials research
- Nation’s most diverse energy portfolio
- Operating the world’s most intense pulsed neutron source
- Managing the billion-dollar U.S. ITER project
UT-Battelle has managed Oak Ridge National Laboratory since April 2000

The University of Tennessee
Knoxville, Tennessee

Battelle
Columbus, Ohio
Delivering science and technology: We lead major R&D programs for DOE and other customers

Energy technologies

Bioenergy

Materials at the nanoscale

Climate

Ultrascale computing

National security

Nuclear energy

Neutron sciences
Our environmental and waste management strategy relies on effective partnerships with outside contractors & small businesses

We use contract support in the areas of:

• Waste management planning, characterization, and preparation of required waste documentation
• Environmental compliance support, including as field-deployed environmental protection officers
• Pollution prevention planning, reporting, and project implementation
• Operation of a Lab-wide waste tracking system
• Off-site analysis of waste & environmental samples
• Off-site waste treatment & disposal services
  • Hazardous waste transportation, treatment & disposal
  • Low-level radioactive waste transportation, treatment, & disposal (via a DOE-wide contract, where possible)
  • Mixed waste transportation, storage, treatment, & disposal (via a DOE-wide contract, where possible)
### % Subcontract Dollars Placed with SB Firms - FY 2011 ORNL Including ARRA

<table>
<thead>
<tr>
<th>Subcontract Type</th>
<th>FY 2011 YTD</th>
<th>Historical Data:</th>
<th>FY 00</th>
<th>FY 01</th>
<th>FY 02</th>
<th>FY 03</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
<th>FY 08</th>
<th>FY 09</th>
<th>FY 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB Base</td>
<td>156.1M</td>
<td></td>
<td>54.57</td>
<td>48.41</td>
<td>49.22</td>
<td>64.10</td>
<td>62.70</td>
<td>50.70</td>
<td>57.84</td>
<td>58.47</td>
<td>62.94</td>
<td>49.64</td>
<td>59.24</td>
</tr>
<tr>
<td>Woman-Owned Business</td>
<td></td>
<td></td>
<td>0.05</td>
<td>0.24</td>
<td>0.37</td>
<td>1.97</td>
<td>4.42</td>
<td>3.21</td>
<td>7.35</td>
<td>6.74</td>
<td>6.96</td>
<td>3.53</td>
<td>4.42</td>
</tr>
<tr>
<td>HubZone Business</td>
<td></td>
<td></td>
<td>N/R</td>
<td>0.32</td>
<td>0.82</td>
<td>1.19</td>
<td>3.00</td>
<td>1.49</td>
<td>4.07</td>
<td>3.52</td>
<td>6.12</td>
<td>4.89</td>
<td>5.93</td>
</tr>
<tr>
<td>Serv-Dis Vet-Owned Small Business</td>
<td></td>
<td></td>
<td>N/R</td>
<td>0.037</td>
<td>-0.001</td>
<td>0.028</td>
<td>0.140</td>
<td>0.115</td>
<td>1.852</td>
<td>1.023</td>
<td>2.540</td>
<td>2.860</td>
<td>3.900</td>
</tr>
</tbody>
</table>

Base for SB, SDB, WOB & HUBZone %s Excludes Foreign, GOVT, INTG, TGT & Affiliates and Includes P-Cards.
Data Source: 2009 & Proc Stats 2. 11-1-2010. UI-Battelle contract started Apr 1, 2000. 6 months of data only. Base revised in FY05 & FY07.

YTD - Jan 2011

49.19% Small Business

9.24% Small Disadvantaged Business

13.89% Woman-Owned Business

2.08% HUBZone Business

4.18% Vet-Owned Business

2.78% Serv-Dis Vet-Owned Business

50.81% Large Business

<insert diagram graph here>
Recent Recognition for Small Business Support

2007 DOE M&O Small Business Programs Manager of the Year Award

2008 DOE Mentor of the Year Award

2010 SBA Dwight D. Eisenhower Award
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Oak Ridge National Laboratory:
Meeting the challenges of the 21st century