

A nighttime photograph of the Pittsburgh skyline, featuring the city's bridges and buildings reflected in the Allegheny River. The text is overlaid on the left side of the image.

# PITTSBURGH 2019

APRIL 16-18, 2019

Doing Business with the  
Department of Energy's  
Office of Science,  
featuring  
Oak Ridge National  
Laboratory

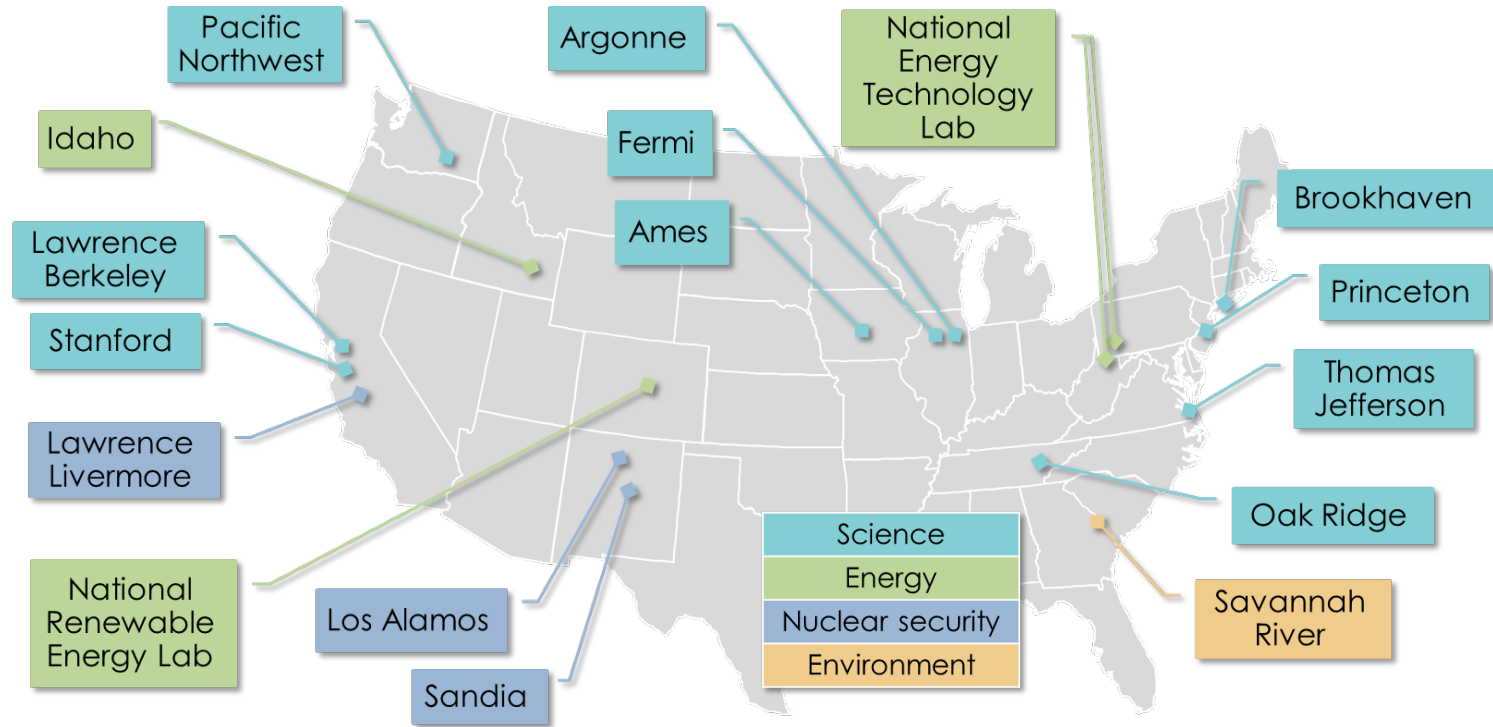
Cassandra McGee Stuart  
Manager, Small Business Programs  
Oak Ridge National Laboratory  
U.S. Department of Energy

New American Energy Era



18<sup>th</sup> Annual DOE Small Business Forum & Expo  
APRIL 16 – 18, 2019 | PITTSBURGH, PA

# The national laboratories of the U.S. Department of Energy constitute a network for discovery and innovation



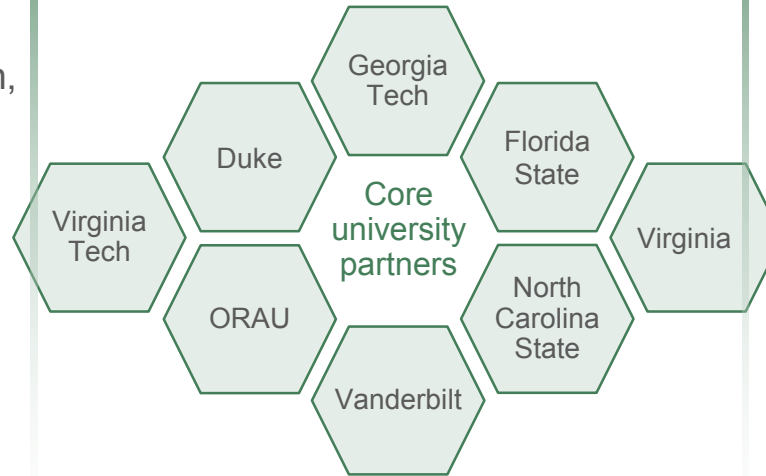
# ORNL is managed by UT-Battelle, LLC



- ORNL partner since 1946
- State-funded Science Alliance started in 1982, to build programs with ORNL
- Shared research, education, and joint appointments
- Joint institutes:
  - Advanced materials
  - Biological sciences
  - Computational sciences
  - Neutron sciences
  - Nuclear physics

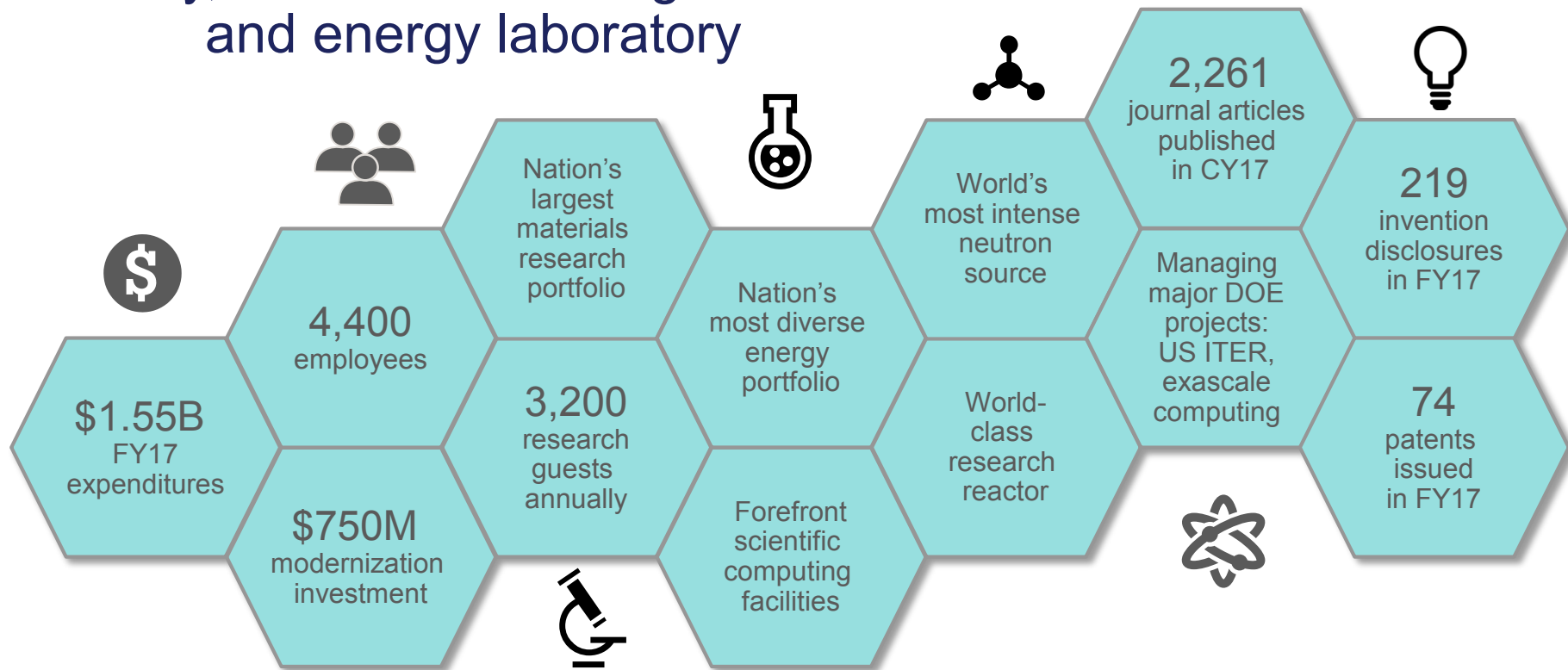


Management contractor  
for DOE's Oak Ridge  
National Laboratory



- 75-year relationship with DOE
- Develops and deploys technology worldwide
- Manages or co-manages 7 DOE national labs:
  - ORNL (with UT)
  - Brookhaven (with SUNY-Stony Brook)
  - Idaho
  - Lawrence Livermore (with UC and Bechtel)
  - Los Alamos (with UC and Texas A&M)
  - NREL (with MRI)
  - Pacific Northwest

# Today, ORNL is a leading science and energy laboratory





# ORNL has a distinguished history of making groundbreaking discoveries and meeting national needs



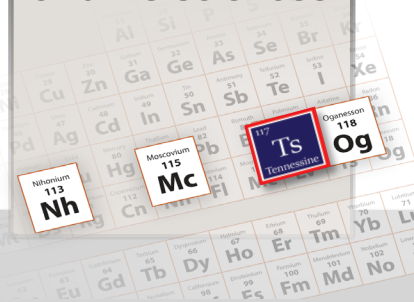
Development,  
production,  
and distribution  
of radioisotopes  
and stable  
isotopes

Science and  
engineering  
of the nuclear  
fuel cycle  
Reactor  
technology  
Separations  
chemistry

Development  
of neutron  
scattering,  
neutron  
activation  
analysis, and  
other innovative  
research tools

Development  
and application  
of high-  
performance  
computing  
resources

Delivering  
advances  
in physical  
and life sciences




# ORNL has a distinguished history of making groundbreaking discoveries and meeting national needs

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## ORNL's Summit Supercomputer Named World's Fastest

New DOE System Named No. 1 on Latest TOP500 List



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June 25, 2018

# ORNL Small Business Programs Office

- **Small Business Advocacy & Outreach**
- **Increase Small Business Utilization**
- **Compliance Issues**
- **Business Opportunities**
- **Manage Mentor-Protégé Program**



2018 DOE HUBZone Small  
Business Outreach Event at  
ORNL



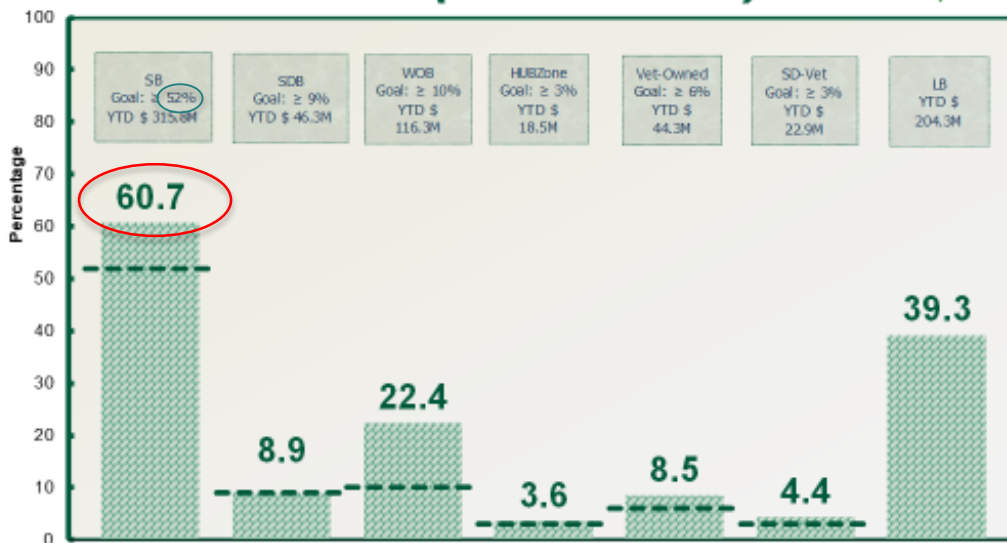
2016 Small Business Outreach  
Event at ORNL



# ORNL Annual Small Business Goals: FY18 Performance

## Subcontract Dollars Placed with SB (%) Firms - FY 2018 (BSC Metric)

YTD - Sep 2018



Projections	FY 18 YTD	Historical Data	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17
SB Base	SB Base	SB-Small Bus	54.6	48.4	40.2	54.1	62.7	50.8	57.8	58.5	62.9	40.6	50.2	54.1	52.7	58.4	55.1	51.5	53.8	60.0
410 M	520 M	SDB-SmDisadvantaged	8.8	7.6	6.4	6.2	9.2	7.1	10.5	9.3	11.1	6.8	10.0	9.8	12.0	12.1	9.4	9.6	11.1	10.5
Exclusions	Exclusions	WOB-Small Women-Owned	8.5	7.5	12.2	8.8	10.3	7.9	11.4	12.3	14.6	9.7	12.4	11.5	13.3	12.6	10.2	11.2	13.8	19.4
290 M	357 M	HUBZone-Hist Underutilized Bus Zone	0.1	0.2	0.4	2.0	4.4	3.2	7.4	6.7	7.0	3.5	4.4	2.8	3.9	3.2	2.9	6.7	3.4	3.8
Total Proc	Total Proc	Vet-Owned-Veteran-Owned SmBus	N/R	0.3	0.8	1.2	3.0	1.5	4.1	3.5	6.1	4.9	5.9	5.5	4.2	6.2	6.9	7.6	11.0	10.1
700 M	877 M	SD-Vet-Serv-Disabled Vet-Owned Sm	N/R	0.0	0.0	0.0	0.1	0.1	1.7	1.0	2.5	2.9	3.9	3.3	2.2	3.2	3.9	4.0	5.2	5.0

Base for SB, SDB, WOB, HUBZone & Veteran %s excludes FRGN, GOVT, INTG, KGT, Affiliates, ZX13, UT & P-Cards. (FY05-10 includes P-Cards) (FY14 excludes 4000130255)  
Data Source: BIProcStats PO-Header. \*UT-Battelle contract started April 1, 2000 (6 months of data only). Base revised in FY05 & FY07. 25BLA/SE Combined CURR Index 10/1/2018





# ORNL Business Opportunities

• <https://smallbusiness.ornl.gov>

**OAK RIDGE National Laboratory SMALL BUSINESS PROGRAMS OFFICE**

Home Business Opportunities Mentor-Protégé Program Facts Awards

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## Is your business a good fit?

Oak Ridge National Laboratory provides contracting opportunities for small and disadvantaged businesses. If your business can provide quality products and services on time and within budget, we want to talk to you!

**CONTACT US TODAY ▶**

### Business Opportunities

Find a list of contracts currently available at Oak Ridge National Laboratory and for small businesses.

### Mentor-Protégé Program

Learn about the Department of Energy initiative designed to help small businesses enhance their capability to perform subcontracts.

### Small Business Program Facts

Get the facts about ORNL's Small Business Program to see if your business is a good fit.



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## ORNL Business Opportunities

<https://www.smallbusiness.ornl.gov>

LeAnne Stribley, Director, Acquisition Management Services Division - (865) 576-0274

Cassandra McGee Stuart, Manager, Small Business Programs - (865) 576-3560 / [mcgeeem@ornl.gov](mailto:mcgeeem@ornl.gov)

For International ITER Business Opportunities, please see: [http://www.ustiter.org/business/iter\\_business\\_opportunities.shtml](http://www.ustiter.org/business/iter_business_opportunities.shtml)

For general information concerning the ITER project, please see: <https://www.ustiter.org/>

**Current Business Opportunity Listings**

[Print this page](#)

Type	Description	Small Business Set-Aside	Estimated Value	Expected Issue Date	Expected Award Date
Computer Equipment	<b>CORAL-2 Acquisition: 3 Exascale, High Performance Computer Systems</b> <a href="#">Details</a>	No	>1900M for all 3 systems & maintenance	Mar-18	Dec-18
Construction	<b>ORNL has selected McCarthy Building Companies as its strategic partner to perform construction activities at ORNL.</b> <a href="#">Details</a>	No	Estimated \$15M p/yr	Varies	Varies
Construction: Task Order #6	<b>ORNL's Strategic Partner Services (GPS) - McCarthy Building Companies, Inc. - Task Order to Construct 603D-Office Building</b> <a href="#">Details</a>	No	<\$4.2M	May-18	Jun-18
Construction: Task Order #8	<b>ORNL's Strategic Partner Services (GPS) - McCarthy Building Companies, Inc. - Task Order to Construct the new Leadership Imaging Facility (LIF) at ORNL.</b> <a href="#">Details</a>	No	<\$4.2M	Jul-18	Aug-18
Industrial Equipment	<b>PHITS Filter Booster Pump</b> <a href="#">Details</a>	No	<\$500K	Dec-17	May-18
Construction: Task Order #9	<b>ORNL's Strategic Partner Services (GPS) - McCarthy Building Companies, Inc. - Bldg. 4500N &amp; 4500S Elevators Installations</b> <a href="#">Details</a>	No	<600K	Feb-18	Apr-18
Manufacturing	<b>Pipe Supports: Custom Build with Modified Cuts</b> <a href="#">Details</a>	No	<\$2M	Jul 1-18	Dec 31-18
Computer Equipment	<b>Request for Information - DOE Office of Science (DOE SC) Distributed Archival Storage System (BFI-DAOS-032818)</b> <a href="#">Details</a>	No	TBD	TBD	TBD
Professional and Staffing Services	<b>CAD Technician Support</b> <a href="#">Details</a>	No	<\$1M	Apr-18	May-18

# ORNL Business Opportunities

<u>Type</u>	<u>Description</u>	<u>Small Business Set-Aside</u>	<u>Estimated Value</u>	<u>Expected Issue Date</u>	<u>Expected Award Date</u>
Construction	ORNL has selected McCarthy Building Companies as its strategic partner to perform construction activities at ORNL. <a href="#">Details</a>	No	Estimated \$15M p/yr	Varies	Varies
MBCI - Construction: Task Order #8	ORNL's Strategic Partner Services (SPS) - McCarthy Building Companies, Inc. - Task Order to Construct the new Leadership Imaging Facility (LIF) at ORNL <a href="#">Details</a>	No	<\$4.2M	Jul-18	In Review - Continuance
Construction	Design/Build of the Translational Research Capability (TRC) <a href="#">Details</a>	No	\$58M	Apr-19	Dec-19
Professional and Staffing Services	Team Building and Facilitation Services <a href="#">Details</a>	Yes	TBD	TBD	TBD
Computer/IT Services	High Performance Computing (HPC) System Administrator Support <a href="#">Details</a>	No	\$<1M	Feb-19	Apr-19
Scientific Instruments	SNS Superconducting Radiofrequency Transmitters <a href="#">Details</a>	No	\$16.5M	Feb-19	Apr-19

# ORNL Business Opportunities

Type	Description	Small Business Set-Aside	Estimated Value	Expected Issue Date	Expected Award Date
Fabrication and Machining Services	VAS-02 Pipe Bellows Prototype – Double-walled hydroformed bellows <a href="#">Details</a>	Yes	<\$1M	Apr-19	Jul-19
Fabrication and Machining Services	VAS-01 ITER Flange Fasteners <a href="#">Details</a>	No	>\$100K	May-19	Jul-19
Industrial Equipment	Vacuum Vessel (VV) Canned-Motor Pumps <a href="#">Details</a>	No	>\$1M	Apr-19	Jun-19
Industrial Equipment	Drying System: Condenser, Economizer, Aftercooler and Knock-Out Pots – Design and fabrication <a href="#">Details</a>	No	>\$1M	Jun-19	Aug-19
Industrial Equipment	Drying System: Nitrogen Storage Cylinders – Design and Fabrication <a href="#">Details</a>	No	>\$1M	Jul-19	Sept-19
Fabrication and Machining Services	Cryo-guard Vacuum System (CGVS) <a href="#">Details</a>	No	>\$500K	May-19	Jul-19

# ORNL Business Opportunities

Type	Description	Small Business Set-Aside	Estimated Value	Expected Issue Date	Expected Award Date
Fabrication and Machining Services	VAS-02 Magnetic Shielding Prototype – Equipment enclosure for magnetic shielding <a href="#">Details</a>	Yes	<\$100K	Apr-19	Jul-19
Fabrication and Machining Services	VAS-01 SVS Manifold Flanges <a href="#">Details</a>	No	<\$100K	May-19	Jul-19
Computer/IT Services	On-Site Computer Applications Courses and Individual Tutoring <a href="#">Details</a>	No	\$500K	Mar-19	Apr-19
Professional and Staffing Services	Learning Services Support <a href="#">Details</a>	No	\$1.5M	Apr-19	Apr-19
Computer Software/Hardware	Adobe Software <a href="#">Details</a>	Yes	\$>1M	Mar-19	Apr-19

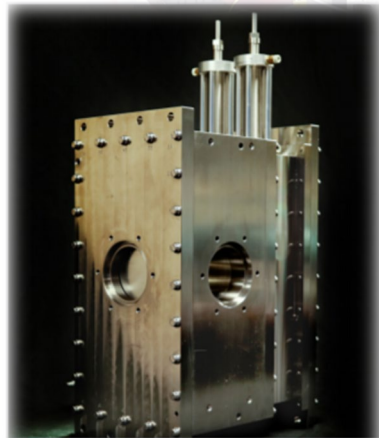
# ORNL Business Opportunities – U.S. ITER

- Anticipated for FY19, fabricated or manufactured items:

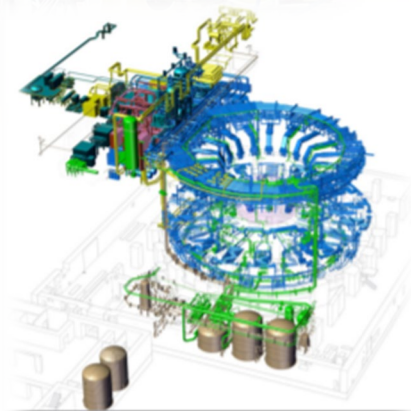
- Tokamak Cooling Water System
- Vacuum Auxiliary System
- Electron Cyclotron System



Vacuum Auxiliary and Roughing Pumps Systems



Waveguide switch prototype. Photo: US ITER/ORNL



Tokamak cooling water system design.  
Image: US ITER



# ORNL Business Opportunities - Construction

## Translational Research Capability

Next Generation Computing Design Research  
Laboratories and Materials Science Laboratories

- Design – 2019
- Construction 2020 – 2022
- Construction Value ~\$60,000,000 +/-
- Out For Bid – TBD



# ORNL Business Opportunities - SNS

## Spallation Neutron Source

- Proton Power Upgrade (PPU) – Estimated \$230M

Critical Decisions	Schedule
CD-0, Approve Mission Need	Jan 2009 (A)
CD-1, Approve Alternative Selection and Cost Range	Apr 2018
CD-3A, Approve Long Lead Procurement	Q2 FY2019
CD-2/3B, Approve Performance Baseline and LLP	Q1 FY2020
CD-3, Approve Start of Construction	Q1 FY2021
CD-4, Approve Project Completion	Q3 FY2027

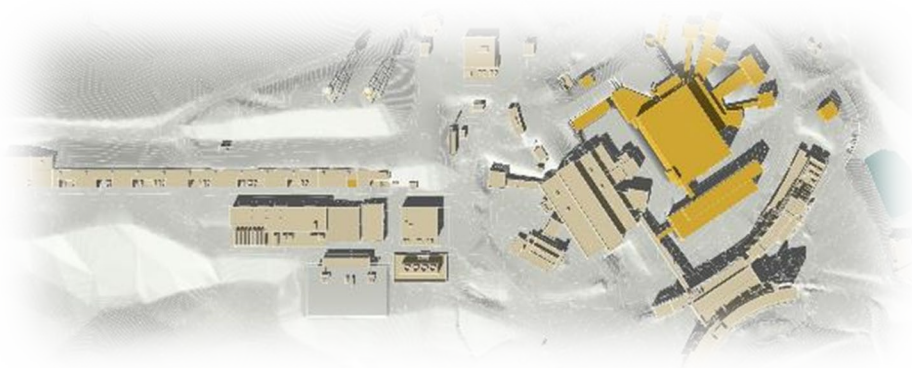


# ORNL Business Opportunities - SNS

## Second Target Station

### Additional Facilities to Allow Expansion of Instruments at Spallation Neutron Source

- Design – 2022-2024
- Construction – 2025-2029
- Conventional Construction Value - \$400,000,000





# Session Evaluations

## Reminder:

Please complete the Speaker/Session Evaluation Form located in the Mobile App.

**Thank you!**

# Questions?

**Cassandra McGee Stuart**  
**Manager, Small Business Program**  
**Oak Ridge National Laboratory/UT-Battelle**  
**mcgeecm@ornl.gov**  
**865-576-3560**  
**<https://smallbusiness.ornl.gov>**

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