

Doing Business with PNNL

February 27, 2024

**Construction Services
for Pacific Northwest National Laboratory**

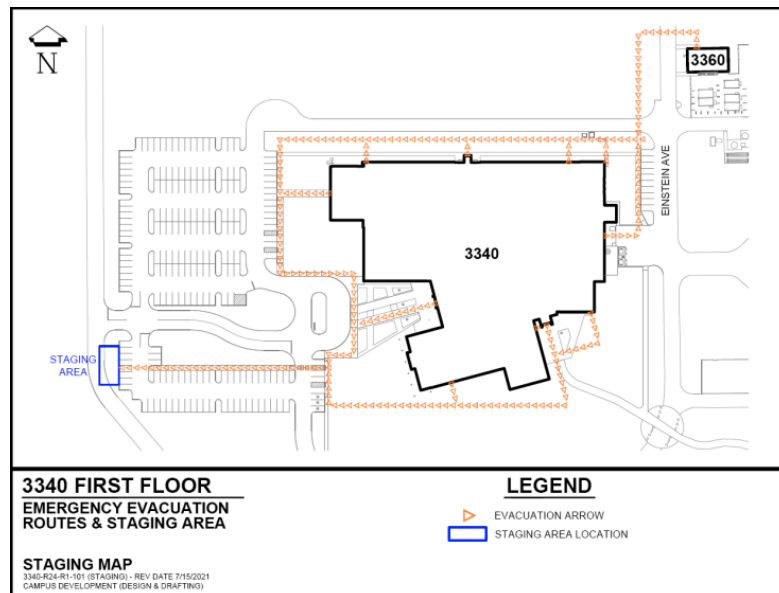
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IR#: PNNL-SA-183790



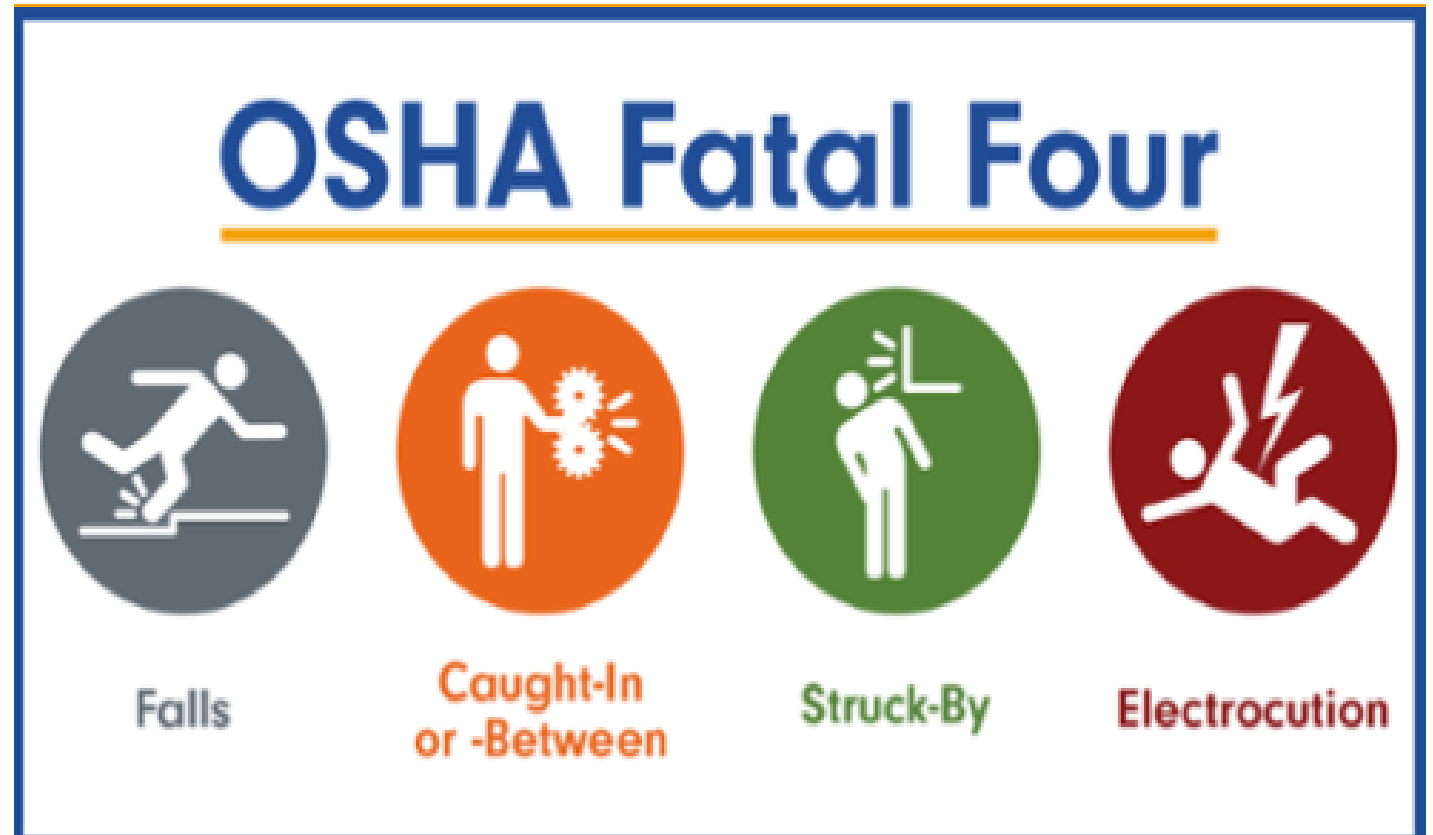
Logistics

- Emergency exits
- First aid



Safety Topic: Fatal Four

- Falls
- Struck-by
- Caught-in
- Electrocution



Welcome and Introductions

Joel Duling

Associate Laboratory Director
Operational Systems

- Welcome
- Introductions
- Agenda



Introductions

Acquisition Management



Brianna Yi
Small Business Program Manager



Garrett Hyatt
Construction Lead Contract Specialist



Melissa Newell
Senior Construction Contract Specialist

Construction Management



Tom Morton
Construction Manager
Safety and Construction

Worker Safety & Health, Environmental and Quality



Mark Deichman
Project Integration & Execution
Safety and Construction



Dan Edwards
Environmental Compliance
Representative



John Robinson
Interim Director
Quality Services

Project Integration & Execution



Michael Huyck
Division Director,
Project Integration & Execution



Mark Manderbach
Portfolio Manager
Minor Construction



Ed Cox
Portfolio Manager
North Campus Development



Shannon Sackett
Portfolio Manager
Planned Major Maintenance and
Research



Blake Kluse
Portfolio Manager
Sequim Campus



Lanson Oukrop
Portfolio Manager
Line Item Projects



Kirk Heaton
Portfolio Manager
325RPL Extended Life Plan

Agenda



8:30 am	Emergency Procedure & Safety Topic	Mark Deichman
	Welcome & Introductions	Joel Duling
	The Future of the PNNL Campuses	Joel Duling
8:40 am	PNNL Overview & Doing Business with PNNL	Brianna Yi
8:50 am	Project Portfolio Overview	Cox, Heaton, Oukrop, Kluse, Manderbach, Sackett
9:20 am	Break	
9:30 am	Contracting with PNNL for Construction	Hyatt & Newell
10:00 am	Construction Culture & Expectations	Tom Morton
10:05 am	Construction Safety	Mark Deichman
10:10 am	Environmental Compliance	Dan Edwards
10:15 am	Quality Assurance	John Robinson
10:20 am	Wrap-Up & Questions	Brianna Yi

The Future of PNNL Campuses

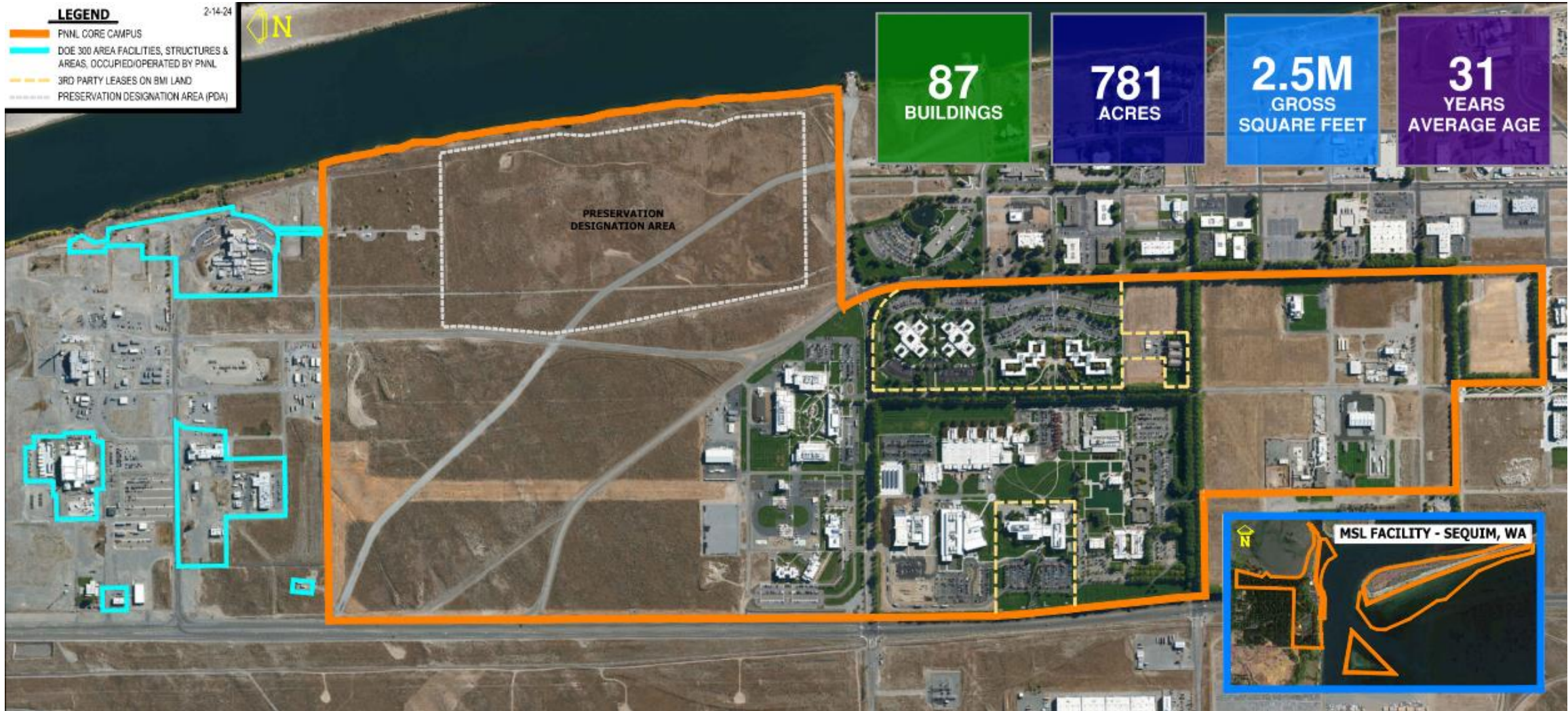
Joel Duling

Associate Laboratory Director
Operational Systems

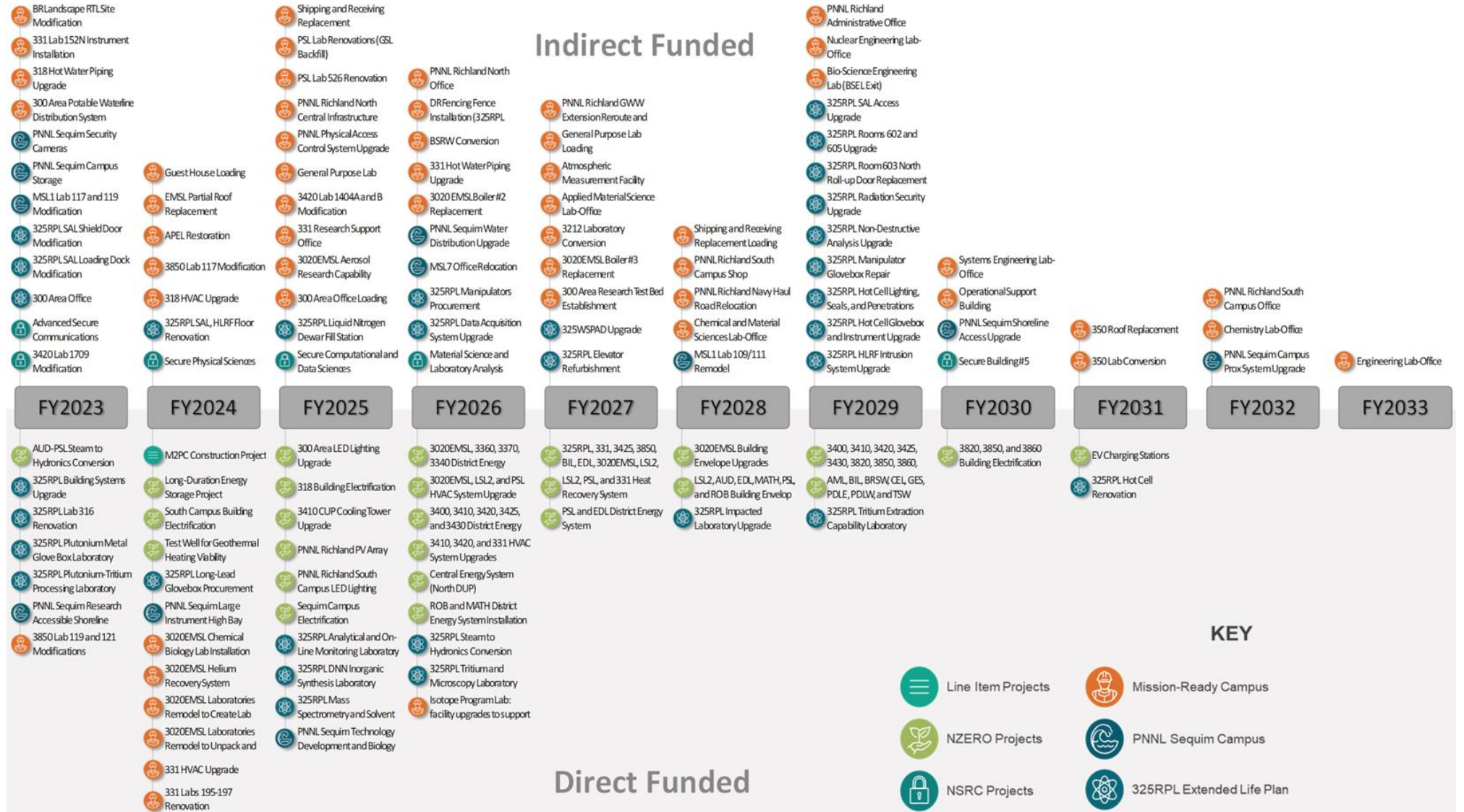
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PNNL Campus



High-Level Perspective



Ten-Year Campus Development Strategy

Investment of ~\$1.2B

Portfolio	Yearly Investment (\$ Millions)									
	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33
325RPL Extended Life Plan	15	5	17	13	13	8	4	16	8	10
Line-Item Projects	12	3	0	0	0	0	0	0	0	0
Minor Construction	17	25	45	93	83	45	47	46	27	39
North Campus Development	18	27	17	37	34	29	62	95	68	46
Planned Major Maintenance	8	8	8	8	8	8	8	8	9	9
Sequim Campus Strategy	2	3	3	4	6	8	6	8	8	7
Total Annual Investment	\$ 72	\$ 71	\$ 90	\$ 155	\$ 145	\$ 98	\$ 128	\$ 174	\$ 120	\$ 110

Overview and Doing Business with PNNL

Brianna Yi

Small Business Program Manager

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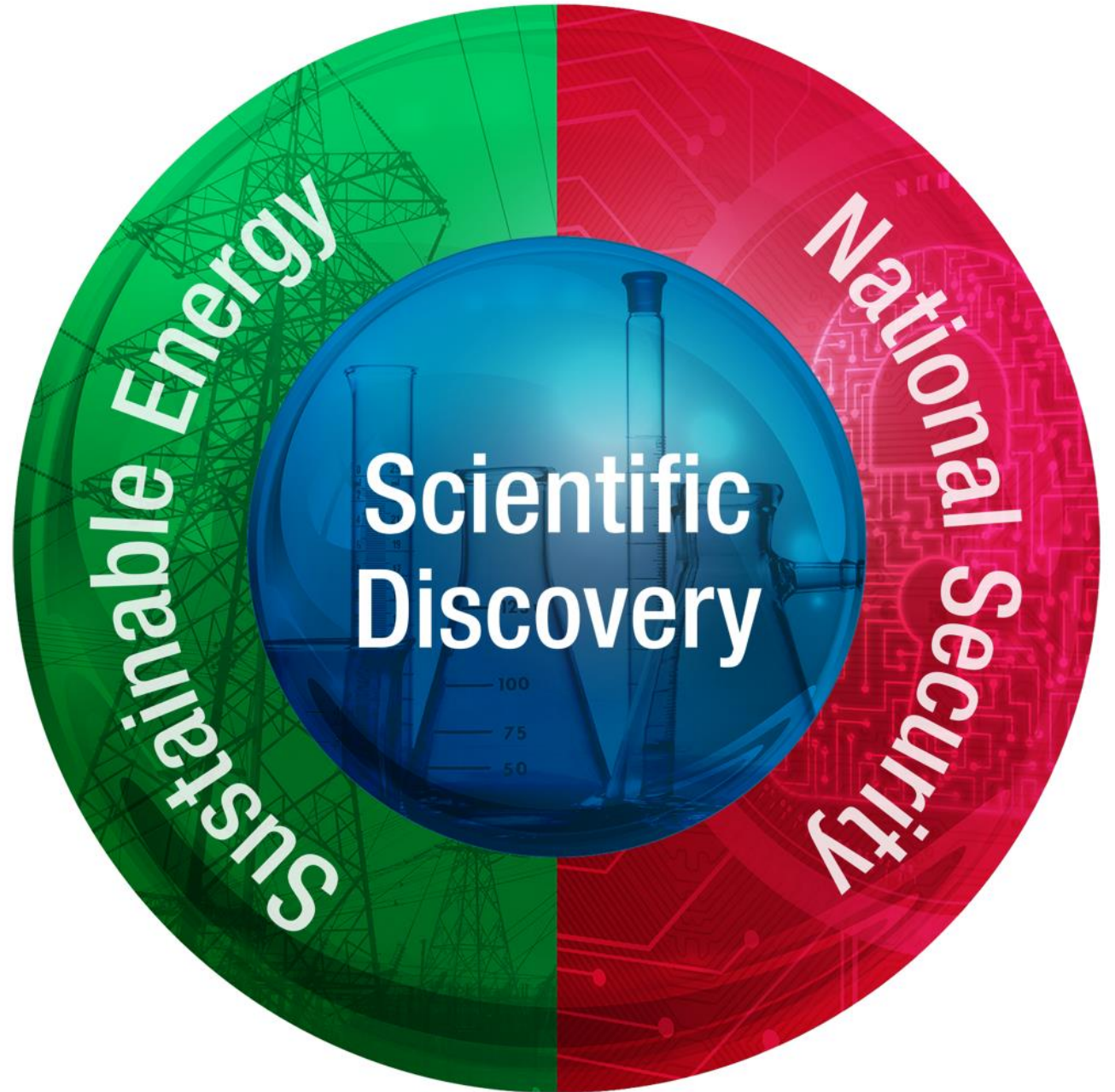


DOE's 17 national laboratories tackle critical scientific challenges





**PNNL is advancing
scientific frontiers
and providing
solutions to critical
national needs**



PNNL is one of DOE's most diversified national laboratories



\$1.5B Spending



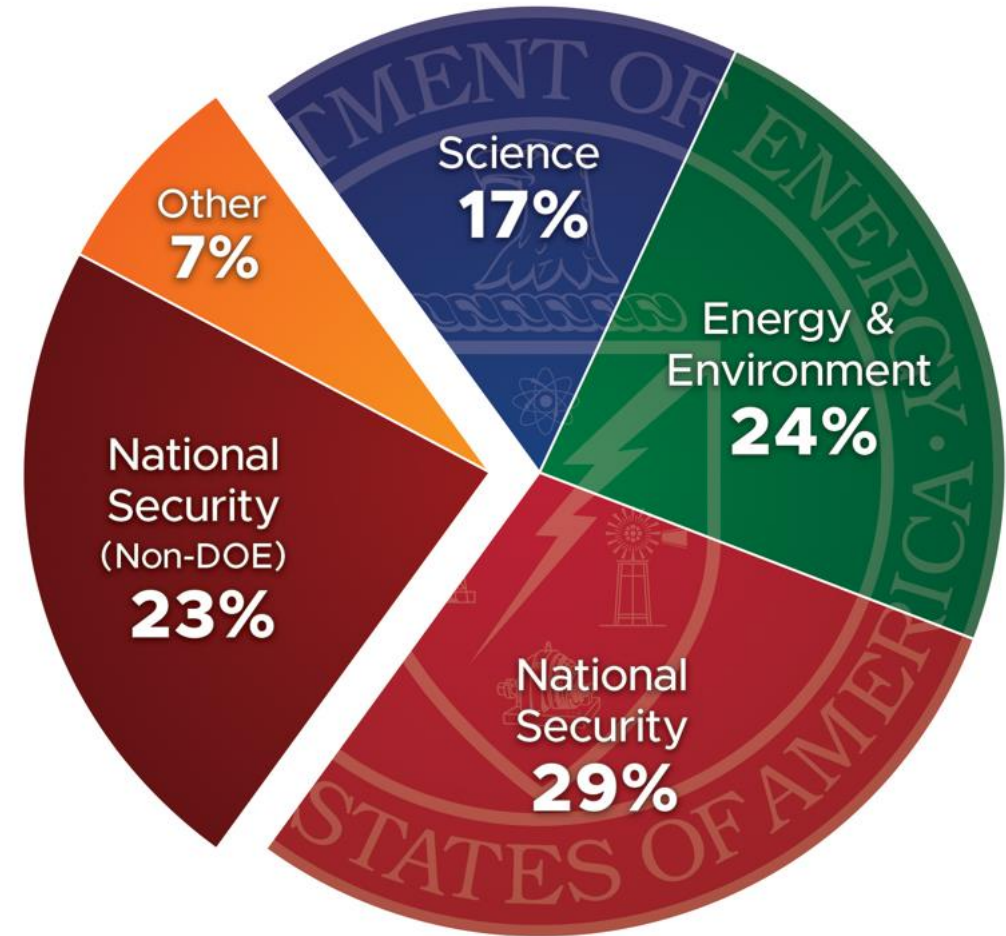
6,088 Staff



1,980 Peer-reviewed Publications

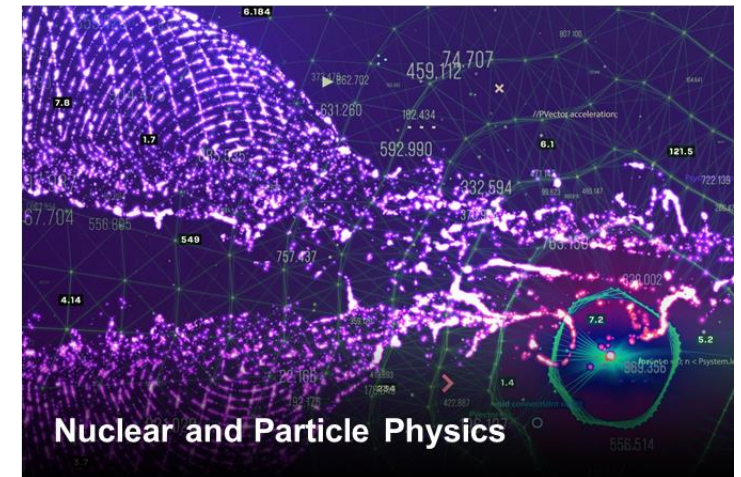
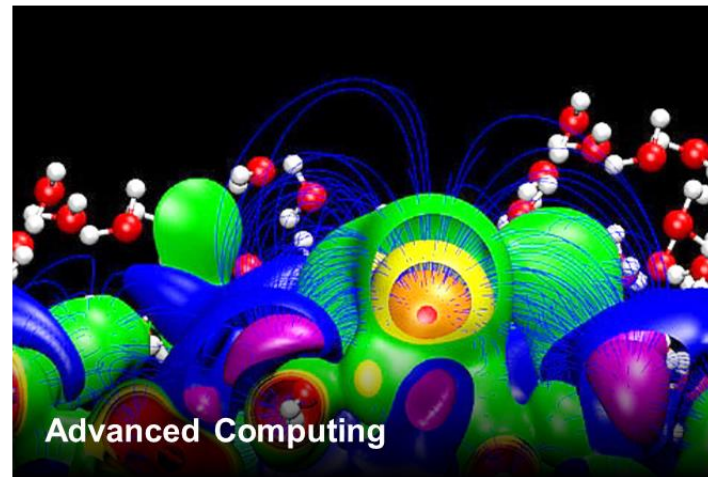
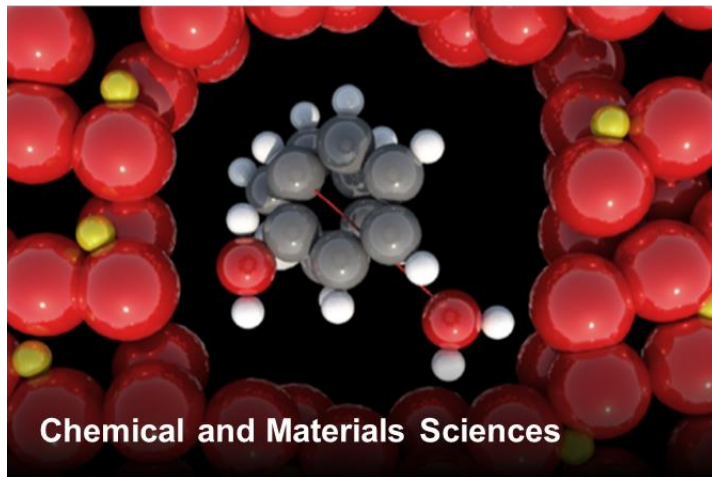
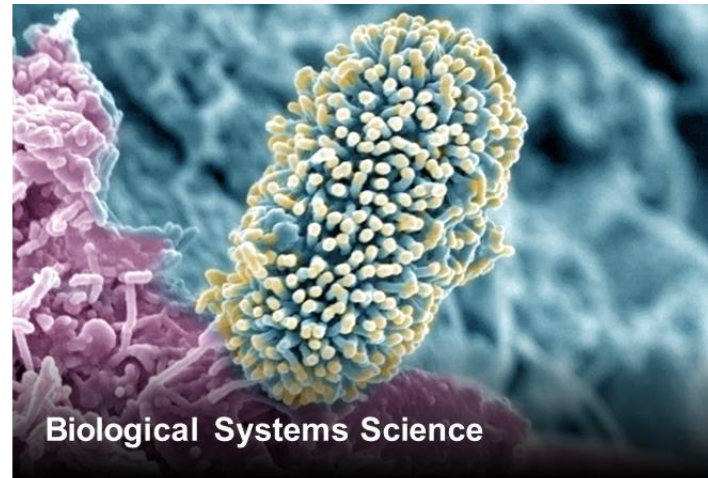
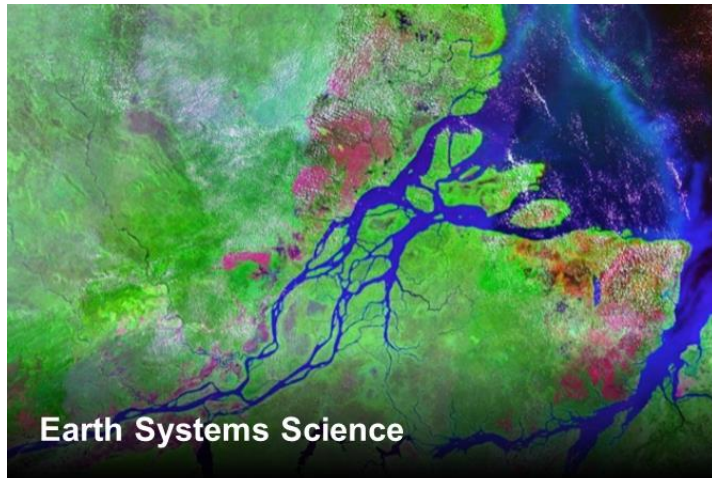


301 Invention Disclosures



FY 2023 Spending

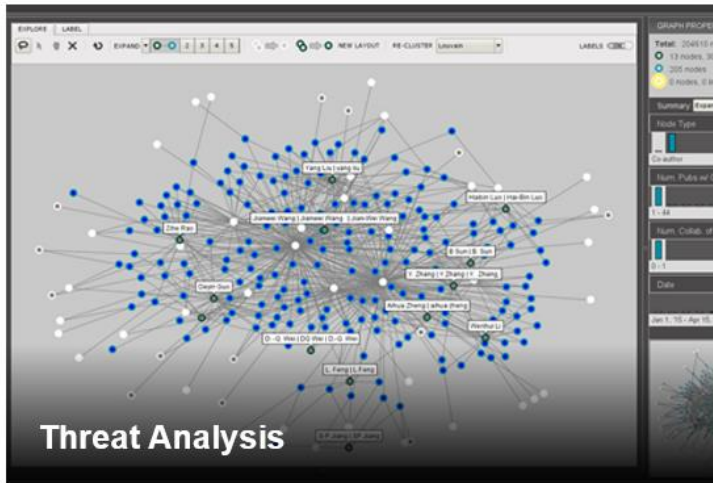
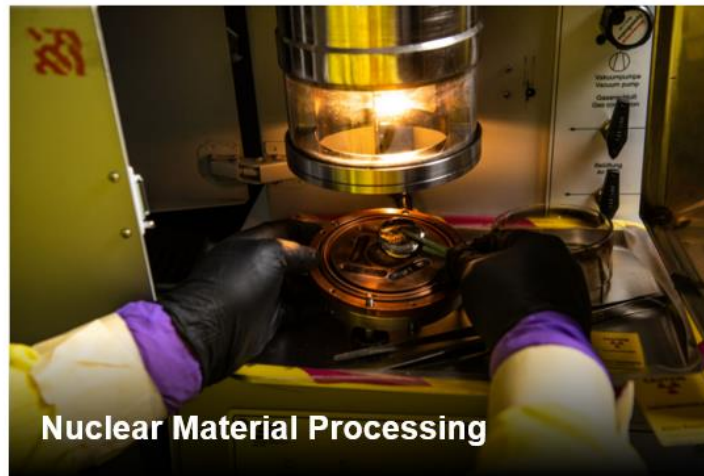
PNNL's Science mission advances understanding of the world around us



PNNL's Energy and Environment mission delivers innovations for our energy future



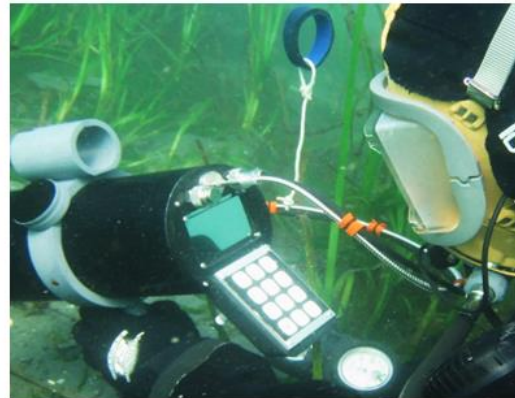
PNNL's National Security mission is reducing the threat from weapons of mass effect



State-of-the-art facilities enable world-class research



PNNL-Sequim Campus



DOE's only marine research facilities

- Clean airshed permits ultra-trace background for measurement and signature sciences
- Facilities enable marine energy innovation
- Flow system provides 200 gallons/minute of seawater to research labs
- Scientific dive team supports in-water research and testing
- Permitted areas for testing a wide range of underwater technologies
- Biosafety Level 2 laboratories provide venue for examining toxin production in marine species

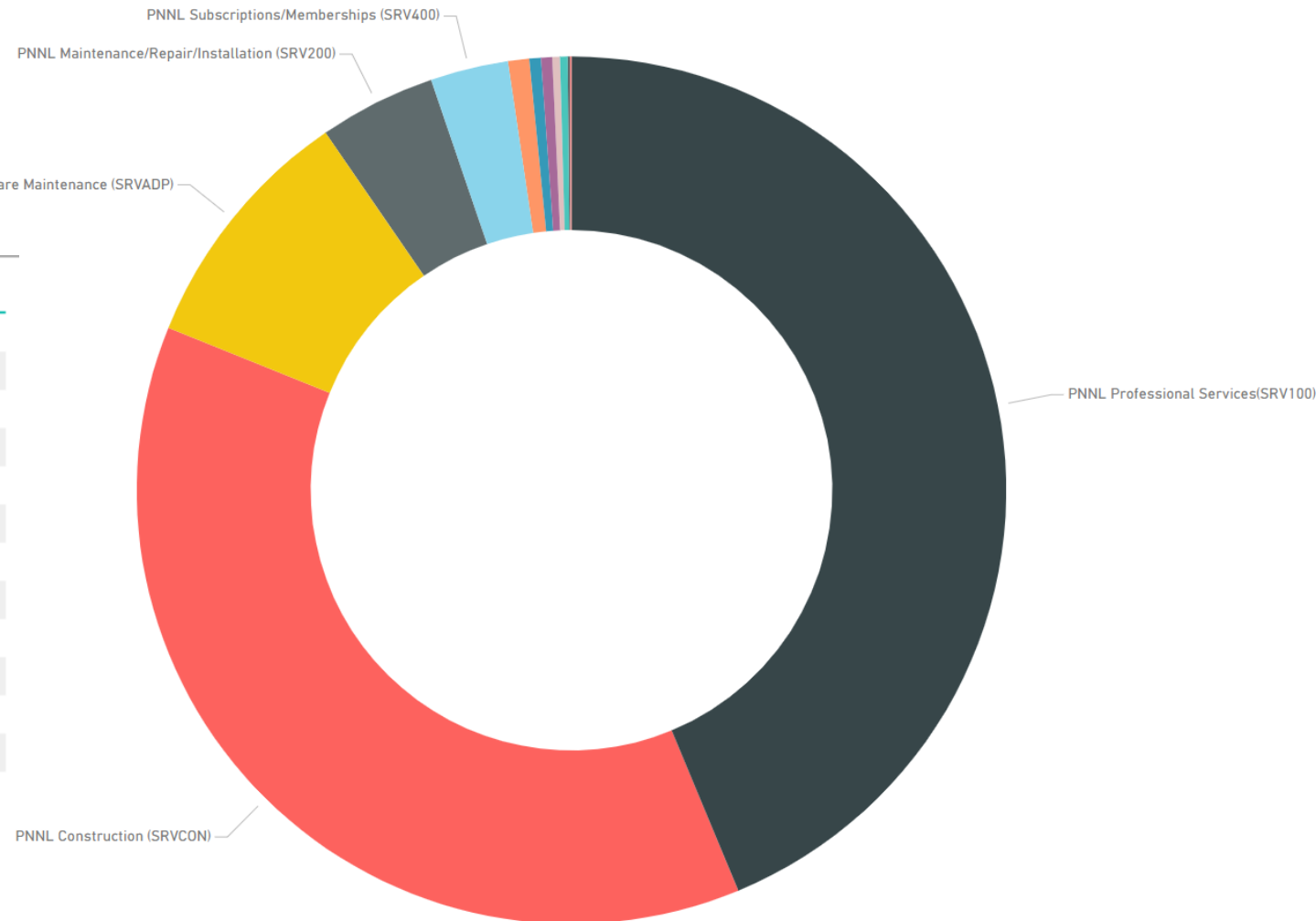
What We Buy and How We Buy It



- PNNL purchases a VERY broad spectrum of goods and services through three purchasing mechanisms:
 - Subcontracts/Purchase Orders – high-risk/high dollar goods and services; \$517M in FY23
 - P-Card – low dollar goods (< \$10K) and services (<\$2,500); \$31M FY23
 - B2B – Commercial-off-the-shelf goods (<\$35,000) via eCommerce; \$18M in FY23
- PNNL supports DOE's small business objectives
- Typical purchases include scientific & laboratory equipment, energy & efficiency resources, security software systems and products, computational tools and information technology services, construction and facilities infrastructure equipment

Top Services Categories for FY23

PO_LINE_CAT_DESC	Spend
PNNL Professional Services(SRV100)	\$356,205,008
PNNL Construction (SRVCON)	\$304,494,610
PNNL Software Maintenance (SRVADP)	\$75,888,562
PNNL Maintenance/Repair/Installation (SRV200)	\$35,391,034
PNNL Subscriptions/Memberships (SRV400)	\$23,525,002
PNNL Household Moves (SRVHHM)	\$6,485,912
PNNL Rental Services - Payables (SRV700)	\$3,487,403
PNNL Training (SRV450)	\$3,363,412
PNNL Software Maintenance (ADP300)	\$2,353,261
PNNL Workshops (Seminar/Trade) (SRV300)	\$2,255,892
PNNL Calibration Services (SRV600)	\$677,875
PNNL Telephone Services (SRVPHONE)	\$458,177



Tips for Working with PNNL

- Prior to award/doing work with PNNL:
 - Take a few minutes to learn about PNNL and how you can help its mission
 - Become familiar with Battelle's [Prime Contract](#) with DOE for contract scope and requirements
 - Reach out to PNNL's Small Business Program Manager to express interest and submit your Capability Statement/Line Card
 - Register in PNNL's [Acquisition Supplier Portal](#) (ASP)
 - ✓ ASP approved profile required for onsite construction
 - Partner with a small business (if large)

The screenshot displays the PNNL website header with the logo and navigation links. The main content area is titled "Doing Business" and features the "Acquisition Supplier Portal (ASP) System" section. This section includes a sidebar with links for ASP Home, Search Suppliers, Search Solicitations, and Supplier Registration. The main text area provides information about Battelle Memorial Institute's role in operating PNNL for the DOE, emphasizing the need for contractors to submit a Qualification Statement. It also lists areas of contractor capabilities evaluated in the statement, such as Environmental Safety and Health, and provides links to submit qualifications. A footer note states that if users encounter difficulties, they should contact SmallBusiness@pnnl.gov.

Pacific Northwest
NATIONAL LABORATORY

Proudly Operated by Battelle Since 1965

U.S. DEPARTMENT OF
ENERGY

PNNL Home | About | Research | Publications | Jobs | Newsroom | Contacts | Search PNNL

Doing Business

Acquisition Supplier Portal (ASP) System

PNNL's Business Opportunities in Contracting

Battelle Memorial Institute operates the Pacific Northwest National Laboratory for the Department of Energy (DOE) under Contract No. DE-AC05-76RL01830. Battelle is committed to providing DOE the best value possible in all of its contract awards, soliciting best-in-class expertise in a competitive market from reliable and responsible contractors and architects, who demonstrate the skill, experience, and qualifications necessary to safely and effectively perform the intended work. To accomplish this, Battelle intends to merge the integrity and character of traditional face-to-face business relationships with the speed and efficiency of today's information technology.

Contractor Qualifications (Construction Contractors Only)

Contractors interested in working with Battelle are encouraged to submit an electronic Qualification Statement. Approved qualifications are valid for a period of one year and subject to annual renewal. Unless otherwise indicated in a specific advertised solicitation, General Contractors are required to be approved prior to submitting in response to an Invitation for Bid, and subcontractors are required to be approved prior to performing any onsite work.

Areas of Contractor capabilities evaluated in the Qualification Statement include:

- Environmental Safety and Health

[Submit Qualifications Here](#)

Help instructions for completing the qualification statements:

- [Prime Contractors](#) [pdf]1MB]
- [Sub Contractors](#) [pdf]840KB]

If you encounter any difficulties please contact SmallBusiness@pnnl.gov.

Account Options

- View/Update profile
- Reset User Name
- Change your password
- Reset your password
- Login

Construction Only

- Submit Qualifications
- Bid Results
- Construction Supplier Listing
- View/Update Qualifications
- Register for solicitations

Doing Business

- Solicitations
- Archived Solicitations

Forecast Opportunities and Current Solicitations

- CONSTRUCTION – ongoing; 3 active solicitations

<u>Solicitation Number</u>	<u>Title</u>	<u>Location</u>	<u>Issue Date</u>	<u>Due Date</u>	<u>Solicitation Type</u>
0000806665	Sequim Campus Experience	Sequim, WA	1/31/2024	02/21/2024	Construction
0000812672	GPU Servers	Richland, WA	2/2/2024	02/23/2024	Goods
0000807106	Thin Film Deposition System	Richland, WA	1/12/2024	02/26/2024	Goods & Services
0000810178	350 Heat Pump Installation	Richland, WA	2/19/2024	03/12/2024	Construction
0000810304	325RPL Building System Upgrade	Richland, WA	2/13/2024	04/03/2024	Construction

Learn More at Upcoming Outreach Events

- Waste Management Symposia
 - March 11 & 12, 2024, Phoenix, AZ
 - <https://www.wmsym.org/>
- Alliance NW
 - March 14, 2024, Tacoma, WA
 - <https://alliancenorthwest.org/>
- Bridging Partnerships Symposium
 - April 3 & 4, 2024, Richland, WA
 - <https://bridgingpartnerships.com/>
- DOE Small Business Forum & Expo
 - June 4 & 5, 2024, Minneapolis, MN
 - <https://www.energy.gov/osdbu/2024-small-business-forum-expo>



Small Business Program Resources

- PNNL [Acquisition Supplier Portal](#)
- PNNL [Solicitation](#) website
- PNNL Doing Business with Procurement: [Directorate Listing](#)
- PNNL [Small Business Program Website](#)
- DOE [Mentor Protégé Program](#)
- Contact PNNL's Small Business Program Manager at small.business@pnnl.gov

Project Portfolio Overview

Ed Cox

Kirk Heaton

Blake Kluse

Mark Manderbach

Shannon Sackett

Lanson Oukrop

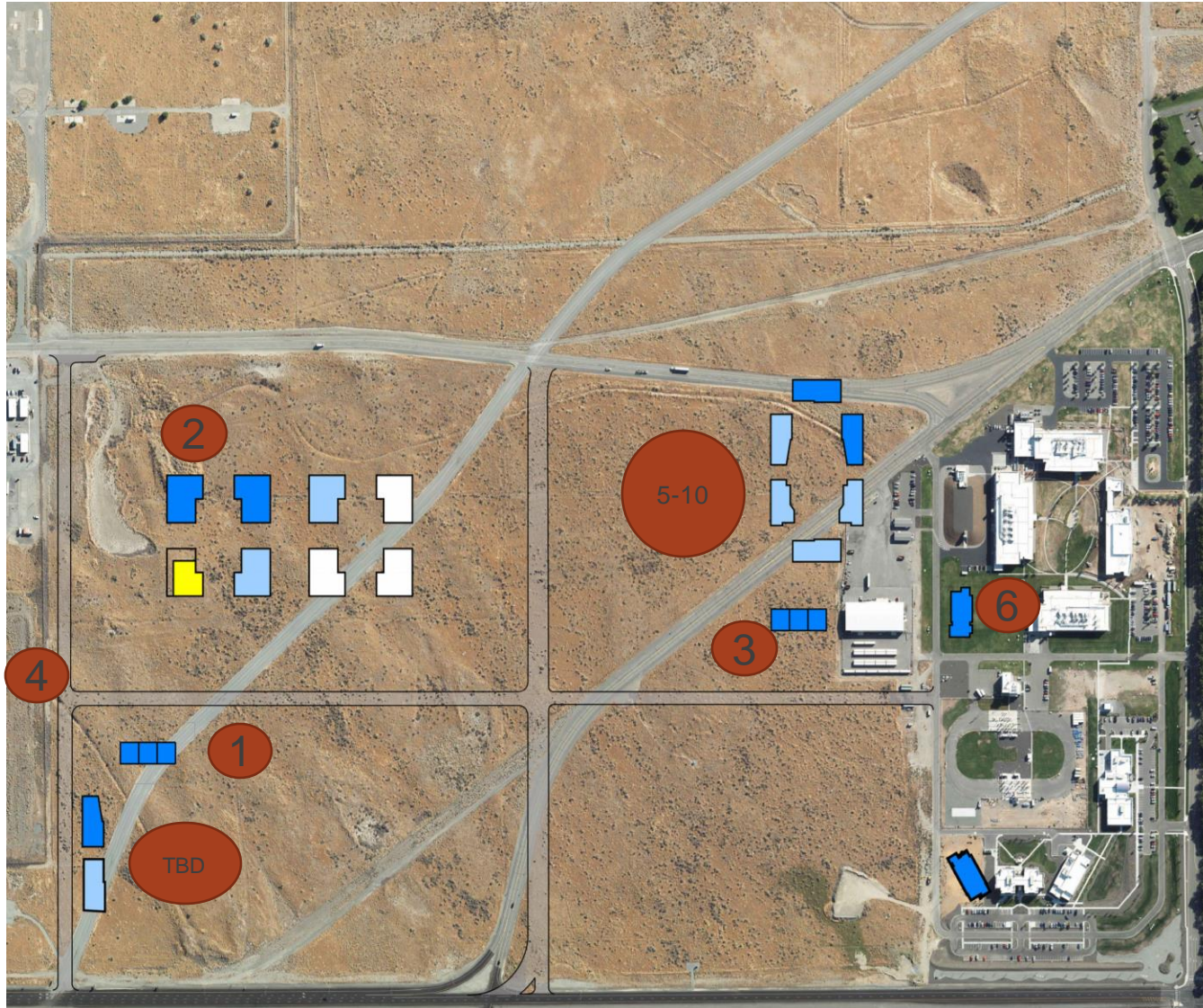
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PNNL Campus



Richland North Campus

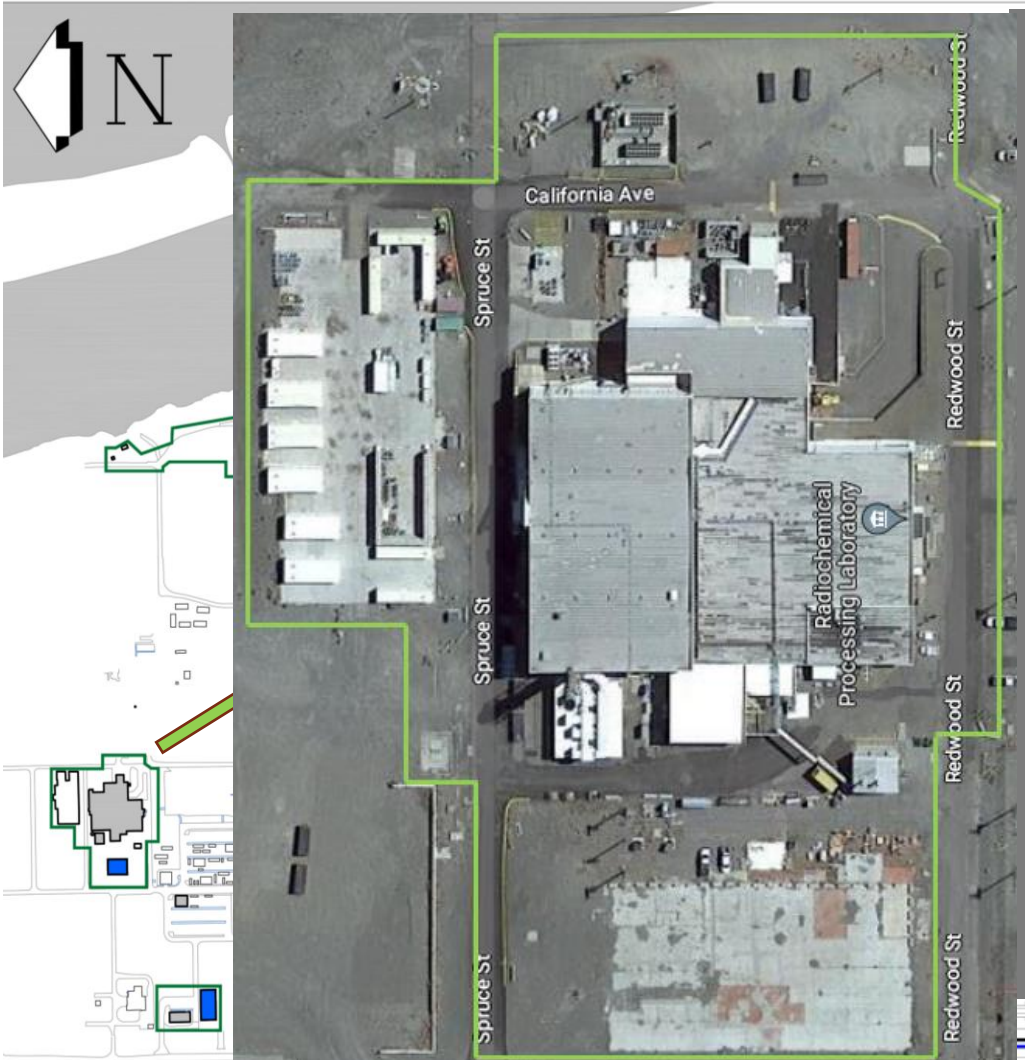


- ~160 acres of greenfield
- Infrastructure, National Security, Lab research and office facilities focus
- New construction activities for the campus
- Size of buildings: 14,000K to 24,900K sq ft
- Design build
- Design-bid-build

Current/Future Investments FY24–FY33 ~\$300M

1. Richland North Infrastructure (FY24)
2. National Security Complex: 5 Buildings (FY24-FY33)
3. Richland North Central Infrastructure (FY26)
4. 300 Area Waterline Upgrade Distribution (FY24)
5. Richland North Office Building (FY28)
6. Richland South Office Building (FY26)
7. Systems Engineering Lab-Office Building (FY27)
8. Applied Materials Science Lab-Office Building (FY26)
9. Chemical and Materials Science Lab-Office Building (FY28)
10. Bio-Science Engineering Lab Building (FY30)

325 Radiological Processing Lab 2022 – 2031



- Update building interior (plumbing; safety systems; electrical; and heating, ventilation, and air-conditioning [HVAC])
- Upgrade exterior infrastructure for safe facility operation through 2046 and beyond. Roof and siding replacement to be completed March 2024
- Refurbish and modernize existing research laboratories, including replacing aging fume hoods and gloveboxes
- Increase research laboratory capabilities by using spaces previously devoted to offices
- Refurbish and potentially expand hot cells to align with NNSA's current and future mission needs

PNNL-Sequim Campus Growth

Facility and Infrastructure Growth @ Sequim ~\$40M

1. Water-Sewer Conversion (FY24)
2. New Storage Building (FY24)
3. Research Accessible Shoreline (FY24)
4. Potable Water Distribution (FY25)
5. Removal of MSL 7 (FY26)
6. Large Instrument High Bay (FY25/26)
7. Marine Technology Development and Biological Lab (FY26/FY27)



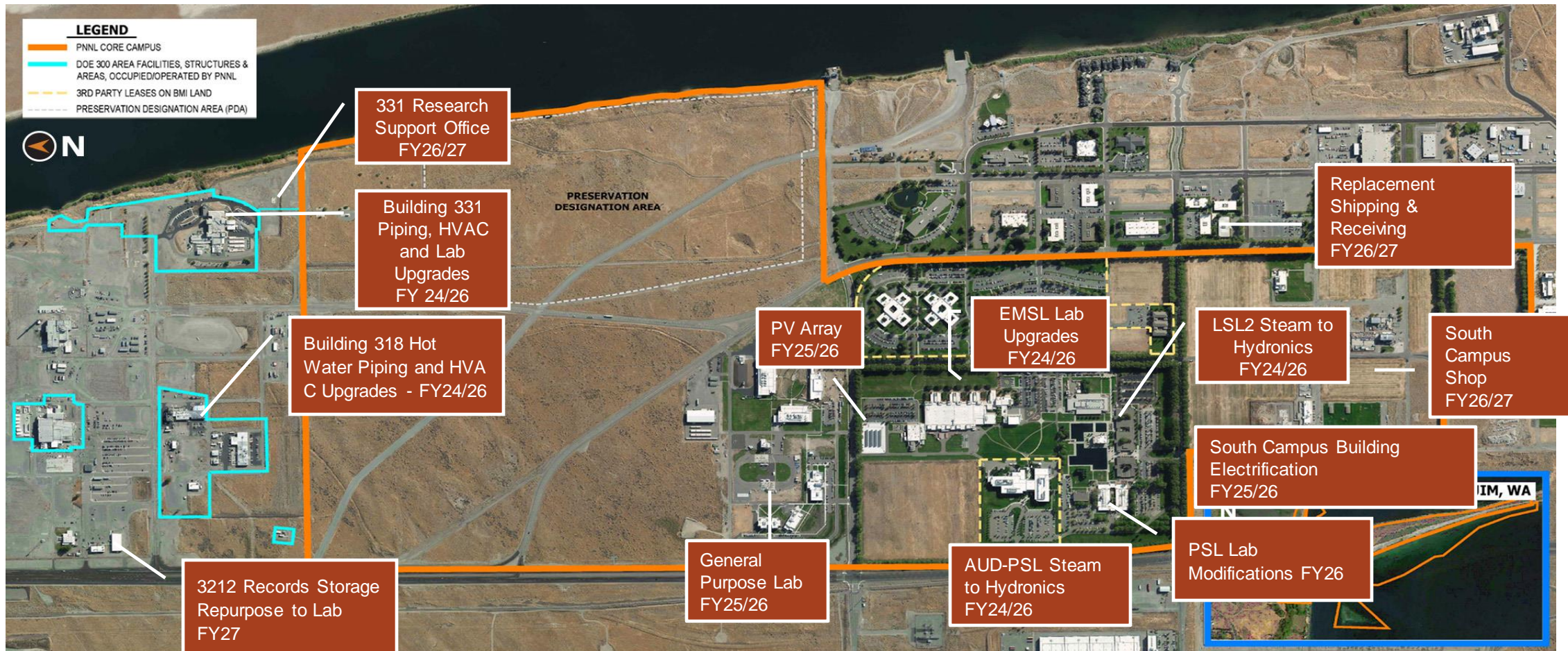
PNNL Sequim Shoreline



PNNL Sequim Water-Sewer Conversion Project

Minor Construction

- New construction, major facility upgrades, repurposing of existing facilities, and lab conversions
- Projects range from ~\$500K to multi-millions
- FY24-26 funding profile ~\$30M-\$45M per year



Planned Major Maintenance

- Substantial investments that restore or replace deteriorated components or systems to maintain PNNL assets in acceptable condition at the Richland and Sequim campuses
 - Examples: Elevators, HVAC, pumps, roofs, switchgears
 - FY24 - \$7.6M budget
 - FY25 - \$8.5M budget
- Portfolio also includes Contracted Services, Emergent Work & Research Requests
 - Examples: laboratory renovations, research equipment installation, asbestos abatement, boiler inspections, irrigation repairs, battery removal
 - FY budget varies based on requests

Line Items (>\$50M): Microbial Molecular Phenotyping Capability

- Design-build
- ~25K GSF lab and support space
- Equipment integration / coordination with automation contractor
- Attached to north side of EMSL
- Schedule
 - Planned Request for Proposal (RFP) Q4 FY24
 - Design/construction FY25-FY27



10-Minute Break

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Contracting with PNNL for Construction

Garrett Hyatt

Acquisitions Lead Specialist, Construction

Melissa Newell

Sr. Construction Contract Specialist

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Construction Wage Rate Requirements & Hanford Site Stabilization Agreement (formerly Davis-Bacon Act)

- Overview
 - Construction Wage Rate Requirements (CWRR)
 - Davis-Bacon Act (DBA)
 - Hanford Site Stabilization Agreement (HSSA)
- CWRR/DBA – Applicability
 - Construction work on the PNNL Campus is CWRR/DBA covered
 - Maintenance work is not covered
 - If covered, wage determination is included in solicitations and resulting contracts
 - Applicability will be identified in each solicitation
 - Compliance clause included in covered contracts
 - SF 1413 required of general contractor and all sub-tier contractors upon contract award

CWRR, DBA, & HSSA (cont.)

- HSSA – Applicability
 - HSSA is the Project Labor Agreement for the Hanford Site
 - ✓ Flows down to CWRR/DBA covered work on the PNNL campus for federally funded projects on federal land
 - ✓ 95% of current work
 - The HSSA applies to all CWRR/DBA work on the PNNL campus
 - HSSA has its own wage determination that supersedes the DBA wage determination and is included in solicitations and resulting contracts
 - HSSA compliance clause is included in covered contracts
 - SF 1413-H required of general contractor and all sub-tier contractors
 - All other reporting requirements remain the same as the CWRR/DBA

CWRR, DBA, & HSSA (cont.)

- Compliance
 - Certified Payrolls
 - Onsite craft interviews
- LCP Tracker (website) – CWRR/DBA/HSSA reporting tool
 - Program overview
 - ✓ PNNL requirement for covered work
 - ✓ Certified payrolls
 - ✓ Onsite compliance interviews
 - General contractor participation
 - Sub-contractor participation

Construction Contract Delivery Methods

- Design, bid, build solicitations
 - Single step solicitation – submit Firm Fixed Price bid in response to Request for Proposal (RFP) / Invitation for Bid (IFB)
 - Battelle provides full design and specifications as part of RFP/IFB
 - Award to lowest priced, technically responsive bidder
 - Execute/close-out contract
- Design/build solicitations
 - Two-step best value* solicitation
 - ✓ Battelle provides Performance Specification (Bridging Document) as part of RFP/IFB identifying minimum requirements
 - ✓ Step 1: Submit qualifications
 - ✓ Step 2: Short-listed contractors from Step 1 submit Technical & Priced Proposals
 - ✓ Awarded to technically acceptable offeror from Step 2 whose proposal provides the best value to Battelle and the Government
 - Design/execute/close-out contract

*Best value is defined within each individual RFP/IFB; price is an element, but not the only element

Procurement Overview

Melissa Newell

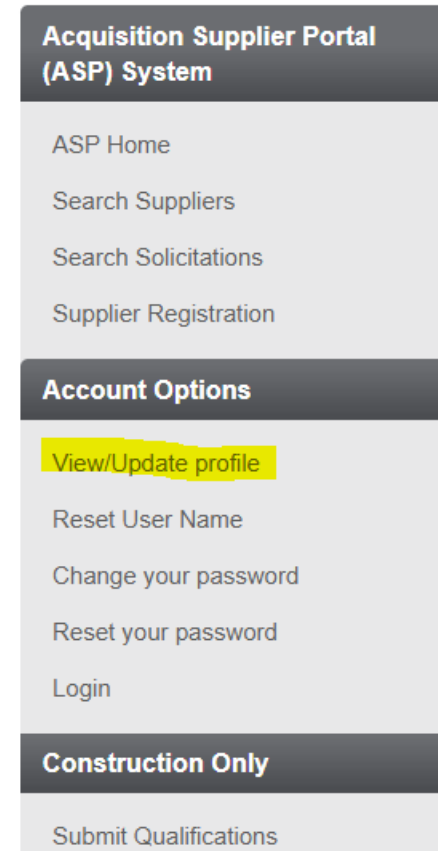
Sr. Construction Contract Specialist

PNNL is operated by Battelle for the U.S. Department of Energy



Acquisition Supplier Portal (ASP) Approval Requirement

- General contractors required to be approved through the ASP website prior to submitting a bid
- If a bid is received and the general contractor is not approved, the bid will be considered non-responsive
- All sub-contractors must be approved prior to receiving Notice to Proceed with on-site work
- Approvals include (~2 weeks)
 - Environmental, safety, & health
 - Financial history
 - Past performance
 - Quality assurance
 - Final approval

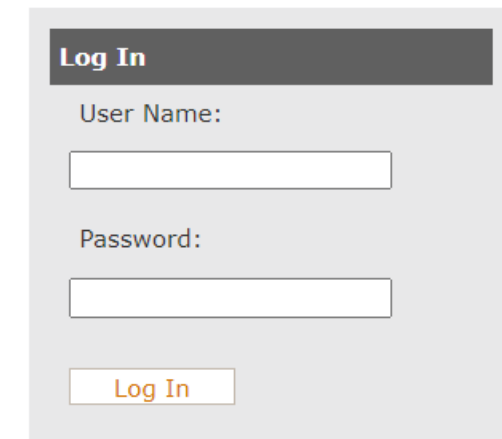


The screenshot shows the navigation menu of the Acquisition Supplier Portal (ASP) System. It is organized into four sections: a top header, a main menu, an 'Account Options' section, and a 'Construction Only' section. The 'View/Update profile' link is highlighted in yellow.

Acquisition Supplier Portal (ASP) System
ASP Home
Search Suppliers
Search Solicitations
Supplier Registration
Account Options
View/Update profile
Reset User Name
Change your password
Reset your password
Login
Construction Only
Submit Qualifications

Acquisition Supplier Portal (ASP) System

You are not signed in. Please sign in below.



The screenshot shows the 'Log In' form. It has a dark header with the text 'Log In'. Below the header, there are two input fields: 'User Name:' and 'Password:'. A 'Log In' button is located at the bottom of the form.

Log In
User Name:
<input type="text"/>
Password:
<input type="password"/>
<input type="button" value="Log In"/>

[Not yet registered?](#)

[Create a new account](#)

[Forgot your password?](#)

[Reset your password](#)

Request for Proposal (RFP)/ Invitation for Bid (IFB) Overview

- RFP vs. IFB
- Table of Contents

3425 New Vestibule Addition and 3425 Liquid Nitrogen Distribution System Installation

Invitation For Bid Instructions to Bidders

Part I – The Schedule

Section A.	Solicitation, Offer and Award
Section B.	Supplies or Services
Section C.	Description of the Work
Section D.	Packaging and Marking
Section E.	Inspection and Acceptance
Section F.	Period of Performance
Section G.	Contract Administration
Section H.	Special Provisions

Part II – Contract Clauses

Section I.	General Provisions Fixed Price Construction Contracts
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Part III – Attachments Section J

Attached Documents:

1. SOW/Div. 1/General Requirements
2. Project Drawings
3. Reference Documents
4. Representations and Certifications

Forms On-line at: <http://www.pnnl.gov/contracts/contractdocuments.aspx>

1. Acceptance of Completed Work
2. Bid Bond – SF 24
3. Certificate of Liability Insurance – ACORD 25
4. Certified Payroll – WH-347
5. Construction Pricing Form
6. Construction Badge Request
7. Contract Daily Report
8. Contract Release
9. Injury/Illness Report
10. Invoice Template
11. OSHA Record Keeping
12. Payment Bond – SF 25a
13. Performance Bond – SF 25
14. Recycling Submittal Form
15. Request for Information
16. Statement and Acknowledgement - SF1413
17. Submittal Request

Battelle Memorial Institute, Pacific Northwest Division (Battelle) in connection with Battelle's Operation and Maintenance of the U.S. Department of Energy's Pacific Northwest National Laboratory (PNNL) at Richland, Washington under contract number DE-AC05-76RL01830 is pleased to invite bids for the **3410 Chiller #3 Replacement** to be installed under this Invitation For Bid (IFB).

IFB Number:	759336
Title:	3410 Chiller #3 Replacement
Location:	3410 Material Science and Tech Lab, 622 Horn Rapids Rd, Richland, WA 99354
Issue Date:	3/22/2023
Closing Date/Bid Opening:	Wednesday, April 12, 2023, 3:00 PM PDT – Virtual Bid opening to be held. Please call in to 509-408-1681, then enter Conference ID: 847-351-27#
NAICS Code:	236220 (Commercial & Institutional Building Construction)
Restriction:	None
Contract Type:	Firm Fixed Price
Basis of Award:	Sealed Bid: Lowest Price, Technically Acceptable meeting the mandatory criteria stated below
MANDATORY Contractor Qualification Requirements:	<i>Prime Contractor shall be pre-qualified prior to submitting bid; likewise, Subcontractors to a Prime Contractor performing work shall be prequalified prior to issuance of NTP.</i> Note - An Experience Modification Rate (EMR) of less than or equal to 0.9 for Prime Contractor (1.0 for Subcontractors) and no willful OSHA/State Labor & Industries Citations over the past three years is needed to meet the pre-qualification requirement. To apply for pre-qualification, see: https://ebs.pnl.gov/ .
Duration/Completion:	Project Complete ready for use, <u>No Later Than, 7/31/2023.</u>
MANDATORY Virtual Pre-bid Meeting / Job Walk:	A MANDATORY pre-bid walk through will take place on Wednesday, 3/29/2023, at 11:00AM PDT. Location: 3410 Bldg., Bush room (1205), 622 Horn Rapids Rd, Richland, WA 99354. <u>BADGES ARE REQUIRED – Please send an email with 1) your full name (including middle initial), 2) month/day of birth, 3) last 4 digits of SS#, 4) state if you are a US Citizen (Yes/No), 5) the date of the job walk, 6) which Contract Specialist is hosting the job walk to Teri Gregory (teri.gregory@pnnl.gov) at least 2 business days prior to the pre-bid walk.</u> <u>Safety: glasses, substantial footwear, and earplugs are required for this walk down.</u>

RFP/IFB Overview (cont.)

- RFP/IFB
 - Instructions for mandatory preproposal conference
 - Selection – usually based on lowest price technically acceptable
 - Proposal due date

RFP/IFB Overview (cont.)

- Instructions for contractors



Invitation For Bid # 759336 Instructions to Bidders *3410 Chiller #3 Replacement*

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12. Contract Award Construction [Adapted from FAR 52.214-19 (Aug 1996)]	7
13. Pricing Conditions [Adapted from FAR 52.214-34 & 35 (Apr 1991)]	7
14. Site Investigation and Conditions Affecting the Work [Adapted from FAR 52.236-3 (Apr 1984)].....	7
15. Ombudsman Program.....	8
16. Flow-down of Contract Clauses.....	8
17. PNNL Contractor Environmental Safety and Health (CESH) Documents	9

RFP/IFB Overview (cont.)

- Solicitation, Offer, & Award (SOA)

Solicitation, Offer and Award		Invitation For Bid Number: 650953	Date Issued: 6/28/2021	1 of 1
1. Description: 3425 New Vestibule Addition and 3425 Liquid Nitrogen Distribution System Installation			2. NAICS Code: 236220	3. Contract / Modification Number:
6. Solicitation Method: <input checked="" type="checkbox"/> Invitation for Bid (IFB) - (Sealed Bid) <input type="checkbox"/> Request for Proposal (RFP) - (Negotiated)			8. Type of Contract: <input checked="" type="checkbox"/> Fixed Price <input type="checkbox"/> Labor-Hour / Time-and-Material <input type="checkbox"/> Cost Reimbursable <input type="checkbox"/> Indefinite Quantity	
			4. This Solicitation has been set aside for Small Business Concerns: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	

(a) SOLICITATION

Sealed offers for furnishing the supplies or services in the Schedule will be received at the place specified in box 7, or if hand-carried, delivered to the contact person in box 9 until 2:30 p.m. local time. In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder." All offers are subject to the terms and conditions in this solicitation.

7. Address Offer to: christina.ochs@pnnl.gov	10. TABLE OF CONTENTS Invitation for Bid (self-deletes upon award) Instructions to Bidders (self-deletes upon award)	
8. Offer Due Date: 7/21/2021, 3:00 PM PDT	Part I – The Schedule <input checked="" type="checkbox"/> Section A (A) Contract Form (and Rate Sheets) <input checked="" type="checkbox"/> Sections B - H (B) Supplies or Services, (C) Description of the Work, (D) Packaging and Marking, (E) Inspection and Acceptance, (F) Deliveries or Performance, (G) Contract Administration Data, (H) Special Contract Requirements	
9. For Information Call: Christina Ochs Office Phone: 509-372-5937 E-Mail Address: christina.ochs@pnnl.gov	Part II – Contract Clauses <input checked="" type="checkbox"/> Section I Contract Clauses Part III - List of Documents, Exhibits and Attachments <input checked="" type="checkbox"/> Section J Attachments & Representations and Certifications	

(b) OFFER (Completed by Offeror)

Period for Acceptance of Offers. In compliance with the above, the undersigned agrees, if this offer is accepted within 90 calendar days from the date of receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified.

11. Acknowledgement of Amendments The Offeror acknowledges receipt of Solicitation Amendment Numbers:	1	2	3	4	5	6	7	8	9	10
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Company Name and Address:	13. Name and Title of Person Authorized to Sign Offer: Name: _____ Title: _____									
14. Offer Amount: Bid Summary Attached YES <input type="checkbox"/> NO <input type="checkbox"/> Total Bid Price: \$	15. Authorized Signature of the Offeror:					16. Offer Date:				

(c) AWARD (Completed by Battelle)

17. Contract Price: \$	18. Contract Number:	19. Contract Term: Through 12/31/2021	20. Award Date:
21. Battelle Authorization: Your offer is hereby accepted as to the items listed above. This award consummates the contract which consists of the following documents: (a) the Battelle Solicitation, (b) your offer, and (c) this award/contract. No further contractual document is necessary.			
(Name of Contracts Professional)		(Signature Authorizing Award)	
		(Date)	

RFP/IFB Overview (cont.)

- Bid Detail Sheet (if applicable)



Invitation for Bid
650953

Table of Contents

3425 New Vestibule Addition and 3425 Liquid Nitrogen Distribution System Installation

Bid Detail Sheet **(Submit This Sheet With The SOA)**

CLIN 1: 3425 New Vestibule Addition \$ _____

CLIN 2: 3425 Liquid Nitrogen
Distribution System
Installation \$ _____

TOTAL LUMP SUM BID (Enter in SOA Box 14) \$ _____

CLINS 1-2: The CLIN's shall be individually priced and included with the Contractors proposal (See accompanying Construction Pricing Form). Battelle reserves the right to award none, any or all or the Bid Options anytime within 90 days after award of the Base Contract at the prices included in the successful contractors bid. After 90 days, the CLIN pricing will become void.

BASIS OF AWARD: Award shall be made on the basis of the bottom line, lump sum, lowest priced responsive bid from a responsible pre-qualified contractor, totaling all CLIN's, 1-2, as a single bid price.

**3425 New Vestibule Addition and
3425 Liquid Nitrogen Distribution System Installation**

RFP/IFB Overview (cont.)

- Sections B through H
- Standard payment terms
Net 30

B. SERVICES AND PRICES/COST

1. **LUMP SUM Proposal:** The following Contract Line Item Numbers (CLIN's) and Additive Alternates shall be individually priced with the Contractor's Lump Sum Price:

CLIN 1: 3425 NEW VESTIBULE ADDITION

CLIN 2: 3425 LIQUID NITROGEN DISTRIBUTION SYSTEM INSTALLATION

BASIS OF AWARD: Award shall be made on the basis of the bottom line, lump sum, lowest priced acceptable Proposal from a responsible pre-qualified contractor, totaling CLIN 1 and CLIN 2.

C. DESCRIPTION OF THE WORK

1. **GENERAL.** Contractor shall perform all construction services, and provide all material, means and methods, equipment, tools and labor, necessary to complete the Work described in and reasonably inferable from the Contract Documents. The Work generally includes providing labor, materials, equipment, means and methods to complete the project.
2. **SPECIFIC.** The Work includes but is not limited to the specific scope elements listed in the Div. 1, Statement of Work and the drawings.
3. **SEQUENCING:** Work Sequencing and Interim Completion Milestones of identified portions of the Work shall be in accordance with the "Work Sequence" requirements of Division 1.

D. PACKAGING AND MARKING

(Reserved)

E. INSPECTION AND ACCEPTANCE

Battelle has the right to inspect and evaluate the Work performed or being performed under the Contract, and the premises where the Work is being performed, at all reasonable times and in a manner that will not unduly delay the Work. If Battelle performs inspection or evaluation on the premises of the Contractor or a Subcontractor, the Contractor shall furnish and shall require Subcontractors to furnish all reasonable facilities and assistance for the safe and convenient performance of these duties.

RFP/IFB Overview (cont.)

- Amendments
(if applicable)

IFB 744445: Amendment No. 3
Amendments/Changes/Clarification
Project: North (N.) Richland Infrastructure
(Inf.) Clear & Grub

IFB ISSUE DATE: February 23, 2023

CLOSING DATE: March 16, 2023

IFB No. 744445 is hereby modified and clarified with the following:

- ❖ **Question:** Do the contractors have to haul off all debris?
Answer: No the natural vegetation can be cleared and pushed out past the sides of the clearing limits, no mowing, the ground must be stripped bare, only haul off the possible non-native concrete/piper debris.
- ❖ **Clarification:** Please reference attached highlighted drawing that was listed in the Division 1.
- ❖ **Question:** Will the CUP foundation need to be removed and hauled off where the north road turns west?
Answer: No, This is a future foundation that does not currently exist.

End of Amendment 3

The above stated clarifications are the only changes being made at this time.

Failure to acknowledge receipt of this amendment with submittal of your Bid could be cause to reject your offer.
All other requirements of the RFP remain as originally stated.

Thank you,

RFP/IFB Overview (cont.)

**** BUSINESS SENSITIVE ****			
<u>PNNL Construction Pricing Form</u>			
IFB/RFP #:		Date:	
<p><i>Submission of this form is required for all offers to be considered for award. The information herein shall not be used to negotiate individual portions of the overall lump sum offer. It will be used to assist in the validation the Bidder's/Offeror's ability to fully perform the contract scope and it will be used to validate Contractor's pricing on future Change Orders. All information submitted herein will be handled as "Business Sensitive" and will not be shared outside of Battelle. The completed form and its contents will be incorporated into any resultant Contract. All sheets must be filled out to be a valid form.</i></p>			
<u>Line</u>	<u>Bid Element</u>	<u>Price Breakdown</u>	<u>Rate Sheets</u>
1	A - LABOR	\$0.00	A
2	B - EQUIPMENT	\$0.00	B
3	C - MATERIALS	\$0.00	C
4	D - SUBCONTRACTS	\$0.00	D
5	BASE AMOUNT (Total of Lines 1 - 4)	\$0.00	
6	OVERHEAD (List % here _____)	\$0.00	
7	PROFIT (List % here _____)	\$0.00	
8	GENERAL AND ADMINISTRATIVE (Bonds, Fees, Insurance, etc.)	\$0.00	
9	APPLICABLE TAXES	\$0.00	
10	CLIN 1 - Fixed Price Contract Work (Total of Lines 5 - 9)	\$0.00	

Preproposal Conference and Site Walk Down (Mandatory for GCs)

- Preproposal conference held on site
~1 week after RFP/IFB distribution
- Prospective contractors without current site access must request a visitor's badge and potentially a dosimeter; details included in the RFP/IFB documentation
- Final questions are typically due 1 week prior to bid due date; however, always refer to your RFP/IFB for exact dates



Contract Overview

- SOA
- Sections B through H
- Applicable documents and general provisions
- Davis-Bacon/HSSA Wage Determination (if applicable)
- Amendments (if applicable)
- Insurance Certificate
- Completed representations and certifications
- Bonding – payment and performance bonds (submittal obtained prior to approval to work on site)
- SF1413's (if applicable) – required prior to issuing on-site work approval for the general contractor, Sub SF1413's due within 14 days of contract award between general & sub
- Completed Construction Pricing Form

STATEMENT AND ACKNOWLEDGMENT					OMB Control Number: 9000-0066 Expiration Date: 4/30/2022	
<small>Paperwork Reduction Act Statement - This information collection meets the requirements of 44 U.S.C. § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 9000-0066. We estimate that it will take .05 hours to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate, including suggestions for reducing this burden, or any other aspects of this collection of information to: U.S. General Services Administration, Regulatory Secretariat Division (M1V1CB), 1800 F Street, NW, Washington, DC 20405.</small>						
PART I - STATEMENT OF PRIME CONTRACTOR						
1. PRIME CONTRACT NUMBER		2. DATE SUBCONTRACT AWARDED		3. SUBCONTRACT NUMBER		
4. PRIME CONTRACTOR				5. SUBCONTRACTOR		
a. NAME		a. NAME				
b. STREET ADDRESS		b. STREET ADDRESS				
c. CITY		d. STATE	e. ZIP CODE	c. CITY		d. STATE e. ZIP CODE
6. The prime contract <input type="checkbox"/> does, <input type="checkbox"/> does not contain the clause entitled "Contract Work Hours and Safety Standards Act - Overtime Compensation."						
7. The prime contractor states that under the contract shown in item 1, a subcontract was awarded on the date shown in item 2 to the subcontractor identified in item 5 by the following firm:						
a. NAME OF AWARING FIRM						
b. DESCRIPTION OF WORK BY SUBCONTRACTOR						
8. PROJECT				9. LOCATION		
10a. NAME OF PERSON SIGNING		11. BY (Signature)			12. DATE SIGNED	
10b. TITLE OF PERSON SIGNING						
PART II - ACKNOWLEDGMENT OF SUBCONTRACTOR						
13. The subcontractor acknowledges that the following clauses of the contract shown in item 1 are included in this subcontract:						
Contract Work Hours and Safety Standards Act - Overtime Compensation (If included in prime contract see Block 6)			Construction Wage Rate Requirements			
Payrolls and Basic Records			Apprentices and Trainees			
Withholding of Funds			Compliance with Copeland Act Requirements			
Disputes Concerning Labor Standards			Subcontracts (Labor Standards)			
Compliance with Construction Wage Rate Requirements and Related Regulations			Contract Termination - Debarment			
			Certification of Eligibility			
			Hanford Site Stabilization Agreement (HSSA)			
14. NAME(S) OF ANY INTERMEDIATE SUBCONTRACTORS, IF ANY						
A		C				
B		D				
15a. NAME OF PERSON SIGNING		16. BY (Signature)			17. DATE SIGNED	
15b. TITLE OF PERSON SIGNING						
AUTHORIZED FOR LOCAL REPRODUCTION PREVIOUS EDITION IS NOT USABLE						
STANDARD FORM 1413 (REV. 4/2013) Prescribed by GSA/FAR (48 CFR) 53.222(e)						

Construction Culture and Expectations

Tom Morton
Construction Management

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Construction Culture

- Worker safety, protection of the environment, quality are priorities
- Mutually beneficial, recurring, partnership
- Battelle has experienced construction managers, WS&H representatives, quality and environmental compliance representatives – looking to partner with contractors' management and key supervisors for a mutually beneficial outcome
- Key supervisor (contractor superintendent and safety personnel) requirements are identified in Section 01 6000 of Division 01 – General Requirements
 - Primary interface point responsible for worker safety, protection of environment, and quality of construction
- Open/timely communication is critical to our partnership



Division 01 – General Requirements

- 01 2000 – Payment Procedures
- 01 3000 – Administrative Requirements
- 01 3200 – Progress Documentation
- 01 3520 – Guiding Principles (Sustainability)
- 01 4000 – Quality Requirements
- 01 5000 – Temporary Facilities & Controls
- 01 6000 – Environmental Safety & Health
- 01 7000 – Engineering, Layout & Installation
- 01 7310 – Cutting & Patching
- 01 7320 – Selective Demolition
- 01 7500 – Work in Radiological Areas
- 01 7600 – Environmental Protection & Waste Management
- 01 7800 – Completion & Turnover
- 01 7900 – Vendor Information
- 01 9113 – General Commissioning Requirements



Administrative Requirements (01 3000)

- Procore – Project Management Software
 - Drawings/specifications
 - Submittal register & submittal tracking
 - Request for Information
 - Engineering Change Notices
 - Inspection reports / Observation reports
 - Daily reports
 - Product substitution requests
 - Look-ahead schedule development
 - Meeting agendas & minutes
 - Punchlist development/tracking
- Access to / use of Battelle's system is provided



PROCORE®

Construction Safety

Mark Deichman, CSP
Construction Safety Professional

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Safe Conduct of Research (SCoR) Principles

- Everyone is personally responsible for ensuring safe operations
- Leaders value the safety legacy they create in their discipline
- Staff raise safety concerns because trust permeates the organization
- Cutting-edge science requires cutting-edge safety
- A questioning attitude is cultivated
- Learning never stops
- Hazards are identified for every task every time
- A healthy respect is maintained for what can go wrong



Construction Safety

- Pre-qualification of bidders:
 - Prime contractor EMR 0.9
 - Sub-tier contractors EMR 1.0
- 10 CFR 851 Project Safety and Health Plan
 - Implement Contractor Environmental Safety and Health (CESH) Manual
 - Prime contractor may submit own program for review/approval
 - ✓ 90-day review period for DOE approval



Key Supervisor

- Key supervisor qualification
 - Jobsite superintendent
 - ✓ 30-hour OSHA training
 - ✓ 5 years of experience
 - Site safety representative
 - ✓ 30-hour OSHA training
 - ✓ 3 years of experience (if required by contract)
- Site safety duties
 - Daily pre-job meeting
 - Hazard recognition
 - Daily inspections of job site
 - Weekly / monthly safety meetings
 - Employee orientations
 - Weekly site walkthroughs with customer



Construction Safety

- Work Planning and Control
 - Job Safety Analysis (JSA)
 - ✓ Daily pre-job briefing
 - ✓ Change of Conditions
 - ✓ Subcontractor daily pre-job checklist
- PNNL Issued Permits
 - Excavation Permit
 - Electrical Work Permit
 - Hot Work Permit
 - Blind Penetration Permit
 - Fall Protection Work Plan
 - Confined Space Permit
 - Lift Plans
 - Isolation/Outage Permit



Special Training

- Equipment certifications
 - Meets OSHA
 - ✓ Qualified operators
 - ✓ Inspections current (daily)
- Identification of special training
 - 01 6000
 - PNNL Lock and Tag training
 - NFPA 70E (Electrical Safety in the Workplace)
 - Crane Operator Training Certification (NCCCO)
 - PNNL Hot Work Fire Watch
 - Hands-On Fire Extinguisher (annual)



PNNL Safety Expectations

- Contractor Occupational Medical Provider
 - Case management
 - Return-to-work program
 - Employee evaluations
- Stretch and Flex program
 - Incorporated with pre-job briefing
- Housekeeping expectations
 - Daily and weekly cleanup
 - Cord Management program
 - ✓ Power plan for temporary power
 - Dust control plan
- Leadership makes a difference



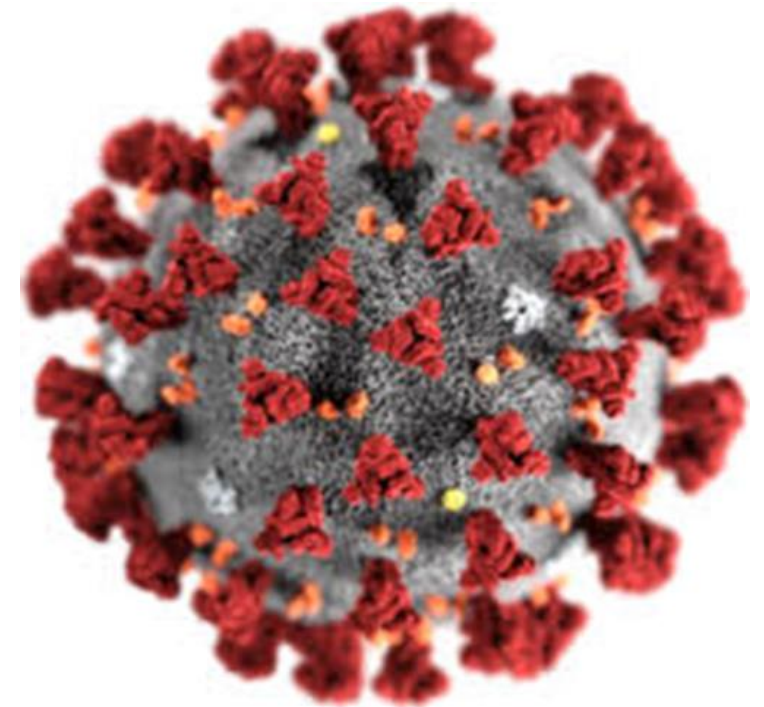
Beyond the Expected

- Silica requirements
 - 25 $\mu\text{g}/\text{m}^3$
 - Performance/objective data
- Welding fumes
 - Manganese
- Scanning (excavation and concrete)
- On-boarding (continuous)
 - Safety meetings
 - Lessons learned
 - Process improvements
 - Field observations



COVID-19 Requirements

- Follow hospital admission levels (Low, Medium, High)
 - Self-monitoring (Low, Medium, High)
 - Face covering (High)
 - Physical distancing (Medium & High) encouraged
- Isolation
 - CDC guidance



Environmental

Dan Edwards
Environmental

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PNNL Environmental Expectations

(Division 01 7600 specification)

- Erosion / dust control
 - Plan submittal for PNNL approval
 - Routinely inspect prevention systems
- Asbestos mitigation and disposal
 - Certified / accredited services, submitted to PNNL
- Modification / Renovation registration with Benton Clean Air Agency (Richland), Olympic Regions Clean Air Authority (Sequim), Ecology (300 Area)
- Waste management and recycling
 - Waste/recycling plan for larger projects
 - Waste and recycle submittal (overall 50% diversion target)
 - Requirements may vary by campus areas



Environmental Protection & Waste Management

(Division 01 7600 specification)

- Stormwater pollution prevention
- On-site wastewater management (concrete wastewater, discharges to ground or sewer, etc.)
- Cultural/historic resources (e.g., Tribal artifacts, 50+ year-old facilities or structures)
- Biological resources – plants and animals
 - Migratory birds, nesting season March-July
- Spill reporting, containment, and cleanup



Quality Requirements

John M. Robinson
Quality

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Quality at PNNL



Construction Quality Program Background

Quality requirements

- Requirements vary greatly depending on the project
 - DOE, ASME, AWS, IBC, ACI, etc.
- Includes PNNL and vendors

What does this mean?

- Construction quality engineers (QEs) know your world
- These construction QEs know the requirements of not only the work you are executing, but the requirements we need to meet as a DOE Lab



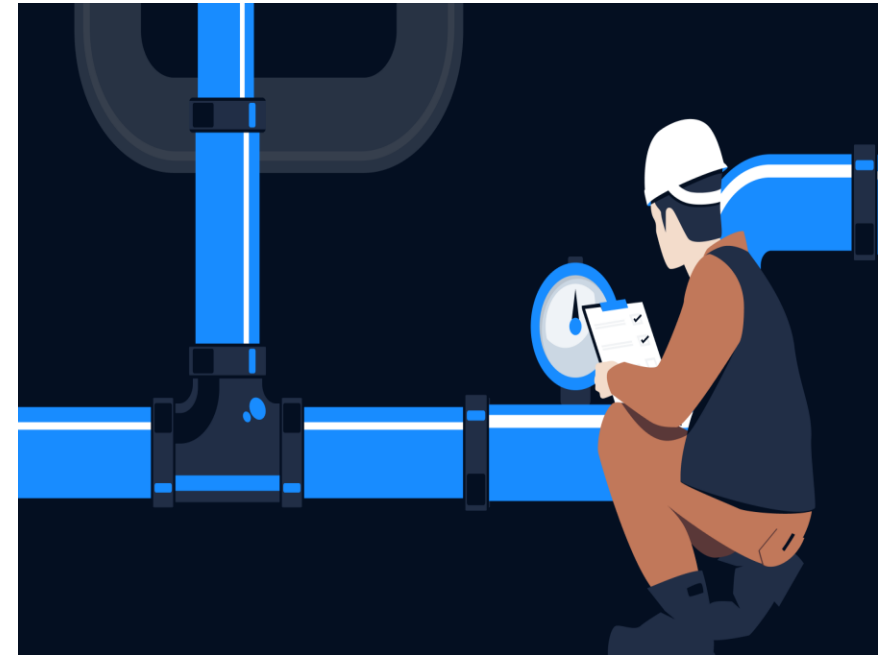
Roles and Responsibilities of Construction QE

Project workflow

- Planning phase
- Purchase requisitions review and assign quality clauses.
- On-site surveillances and inspections
 - Walking down construction sites with QA/QC checks
- Review of submittals associated with work performed

When should I reach out?

- Any time you have a question about quality requirements. They are your QA/QC point of contact for PNNL!



Introductions: Who Do I Reach Out To?

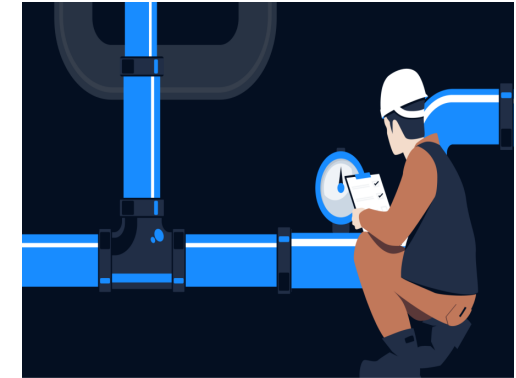
- Seth Fluharty – seth.fluharty@pnnl.gov
- Juan Rivera – juan.rivera@pnnl.gov
- Tony Trethewey – tony.trethewey@pnnl.gov
- Eric Watkins – eric.j.watkins@pnnl.gov



Common Pitfalls & Suggestions for Success

Where to look for Quality requirements

- RFP/IFB QA-Clauses
- DIV 01 – 4000
- General Provisions – Suspect/Counterfeit Items
- Statement of Work




Common pitfalls

- We are responsible for maintaining records for DOE
 - Submittals – Pre-work / Post-work submittals
 - Submittal requirements directly impact invoicing
 - Documents are filled out completely and accurately

Contractor Non-conformance Reporting

- Non-conformance – a deficiency in characteristic, documentation, or procedure that renders the quality of an item or activity unacceptable or indeterminate
- Contractor is required to report to the Battelle Contracts Representative any nonconformance or deviation from Battelle's technical requirements
- CNCR form
(<https://www.pnnl.gov/contracts/Forms.aspx?area=Procurement>)

 Proudly Operated by Battelle Since 1965		CONTRACTOR NONCONFORMANCE REPORT (CNCR)	
To be completed by Contractor (please type or print). The Contractor accepts full responsibility for the accuracy and completeness of the information below.			
NOTE: If this CNCR contains Classified or Unclassified Controlled Nuclear Information (UCNI) information, the Contractor shall observe established protocols for handling and transmitting Classified or UCNI information.			
(1) Contractor:		(2) PNNL PO No.:	
		(3) System/Facility (if applicable):	
(4) When Applicable, Provide Drawing/Spec No. _____ Rev. No.: _____		(5) Nonconforming Item(s):	(6) Quantity:
(7) Description of Deficient Condition, Specification Requirement not Met, or Interpretation Required:			
(8) Supplier's Requested Disposition Type. (Repair, Rework, Reject, and Use-as-is):		(9) Proposed corrective actions for disposition:	
(10) Justification for Requested Disposition:			
(11) List Attachments:		(12) Signature of Contractor's Authorized Representative: Print/Sign: _____ Date: _____	

Suspect/Counterfeit Items

- DOE requirement – DOE Order 414.D, Attachment 3
- Common items
- Subcontractor responsibilities
- Suspect/Counterfeit Item Awareness Training Manual



Suspect/Counterfeit Items Awareness Training

GE Molded Case Circuit Breaker



Sold as new by supplier
Indications of being used or refurbished
Label worn and torn

Counterfeit

Potting material in bottom screw hole tampered with;
should be smooth and even with surface of case
Appears dirty and worn
Represented as being new in the condition above

Wrap Up and Q&A

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Thank You

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