



# Doing Business with PNNL

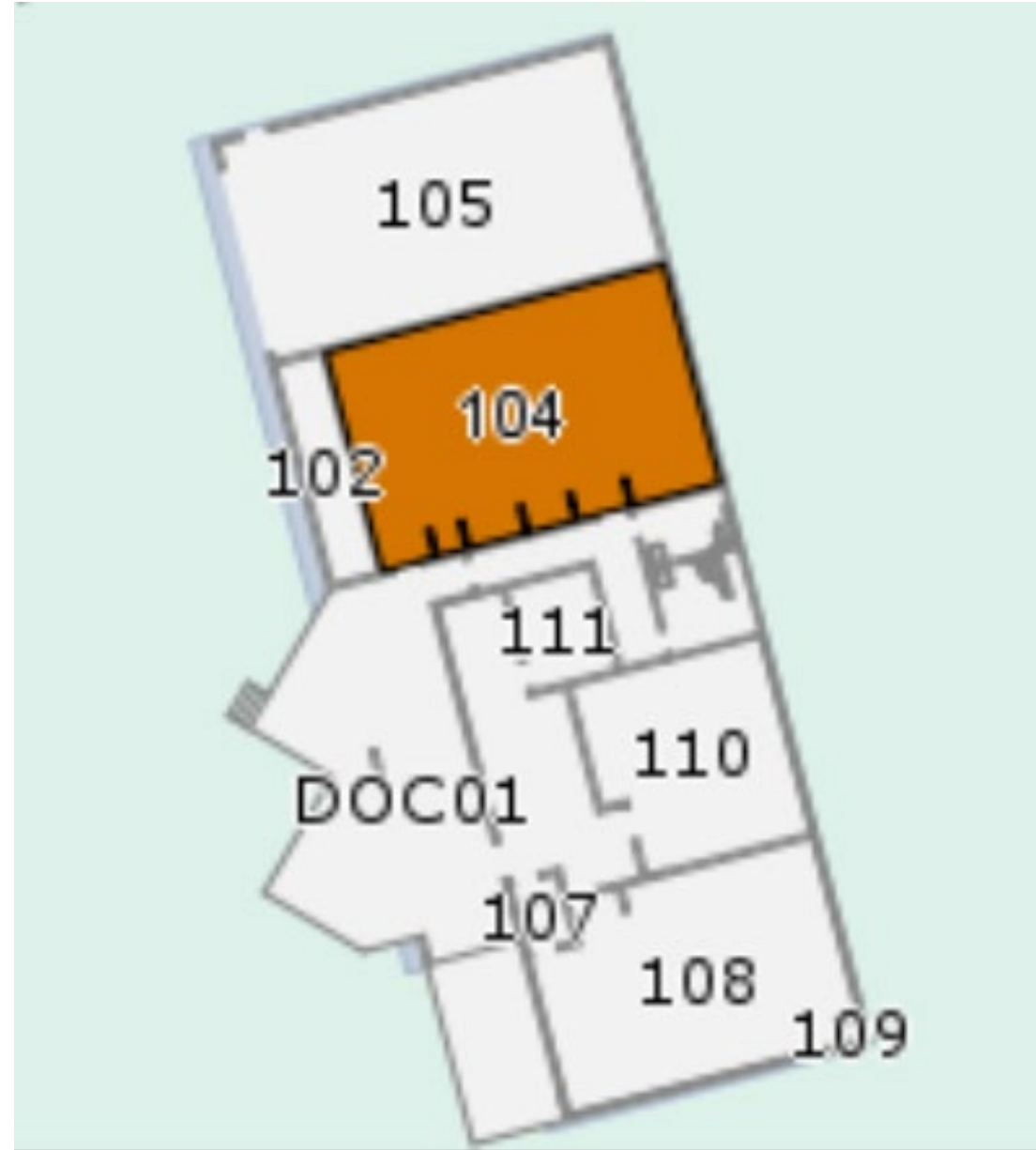


PNNL is operated by Battelle for the U.S. Department of Energy



## Welcome and Logistics

- Emergency Exits
- First Aid
- Restrooms





# Agenda



Time	Task	POC
9:00	Welcome and Introductions	Mark Manderbach
9:05	Safety Topic	Mark Deichman
9:10	PNNL Overview & Doing Business with PNNL	Brianna Yi
9:30	Future of PNNL Sequim Campus	Blake Kluse/Scott Maple
9:50	A&E Overview	Vincent Genetti
10:00	Contracting with PNNL for Construction	Greg Moore
10:10	Construction Culture & Expectations	Mike Hughes
10:20	Construction Safety	Mark Deichman
10:30	Environmental Compliance	Dan Edwards
10:40	Quality Assurance	Mark Manderbach
10:50	Wrap-Up & Questions	Blake Kluse

# Introductions

## Acquisition Management



Brianna Yi  
Small Business Program Manager



Garrett Hyatt  
Construction Lead Contract  
Specialist



Greg Moore  
Senior Construction Contract  
Specialist

## Construction Management



Mike Hughes  
Construction Manager

## WS&H and Quality



Mark Deichman  
PIE Safety & Construction



Dan Edwards  
Environmental Compliance  
Representative

## Project Integration & Execution



Mark Manderbach  
PIE Project Management Office  
Director



Blake Kluse  
Sequim Campus Portfolio Manager



Scott Maple  
PNNL Sequim Project Manager



Vincent Genetti  
Campus Design, Engineering,  
and CAD

## Safety Topic

- Existing Operations.
  - This is an operating research facility. Please remain in contact with hosts
- Uneven Surfaces
- In Case of Emergency
  - Muster area is parking lot. Follow hosts
- Security
  - Hosts are responsible to remain in contact with visitors





# Overview and Doing Business with PNNL

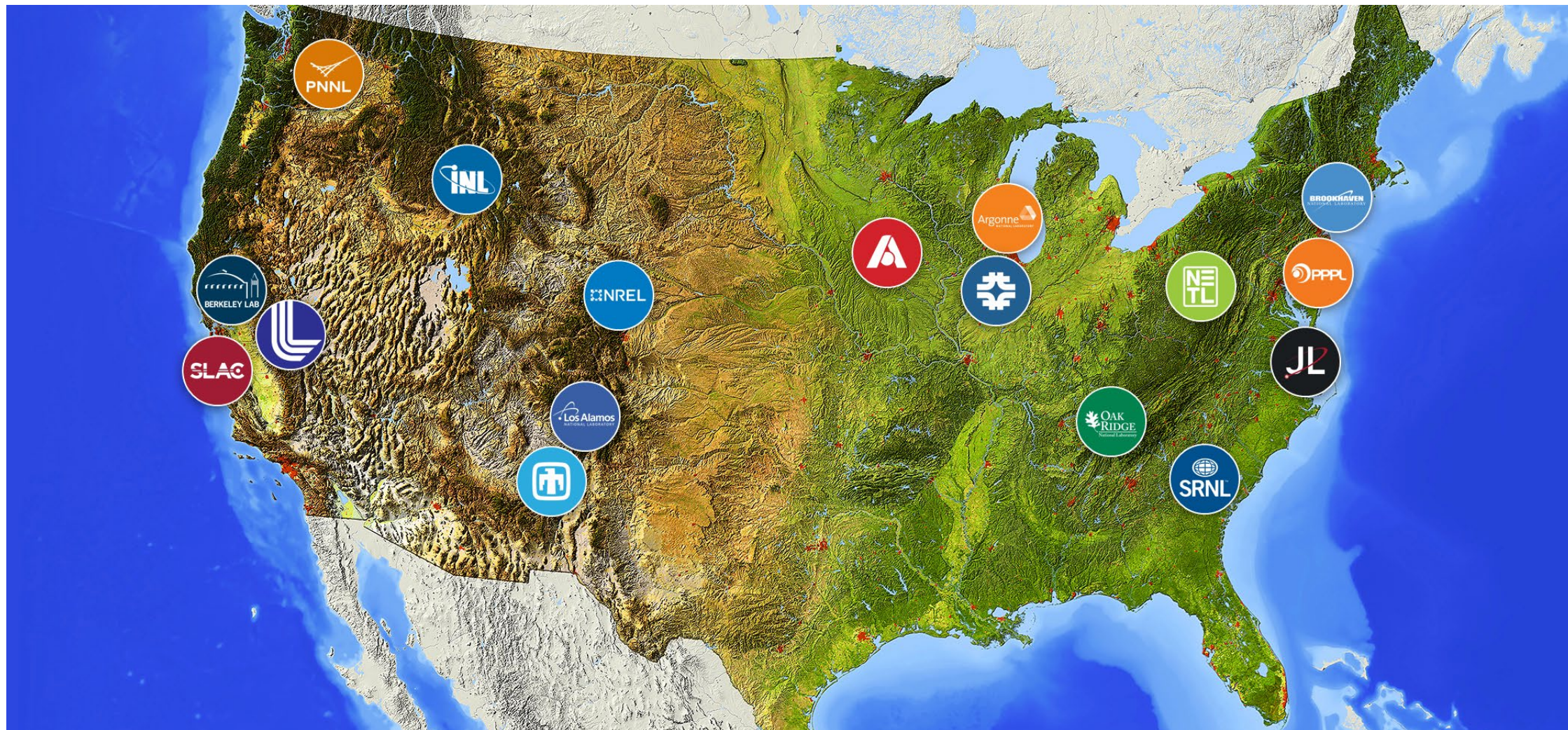


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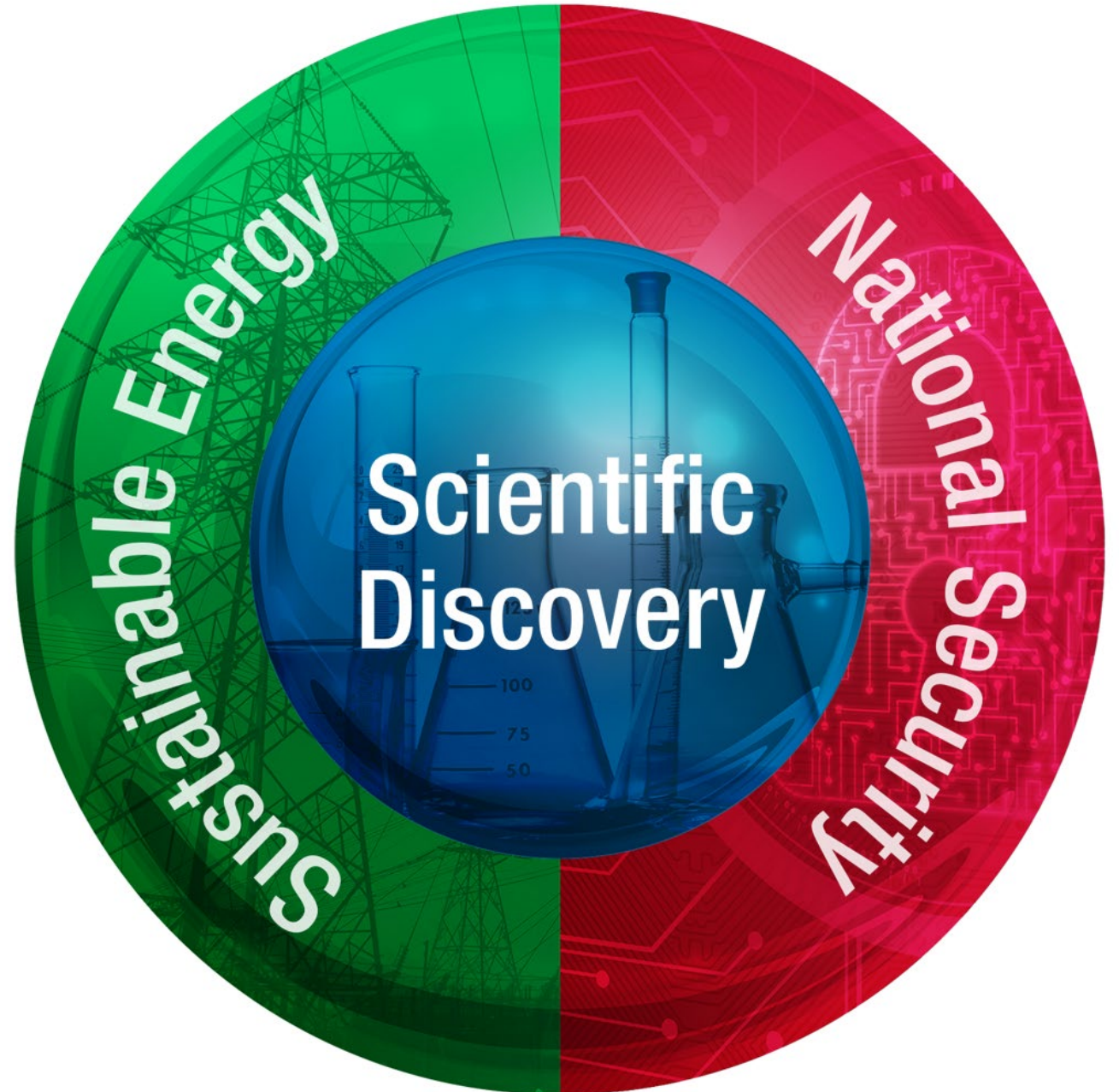


# DOE's 17 National Laboratories tackle critical scientific challenges



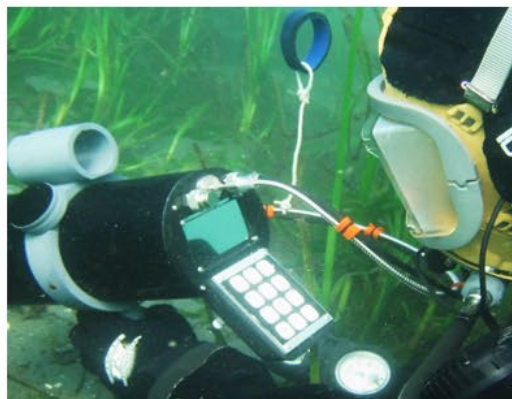


**PNNL is advancing  
scientific frontiers  
and providing  
solutions to critical  
needs**





# PNNL Sequim Campus

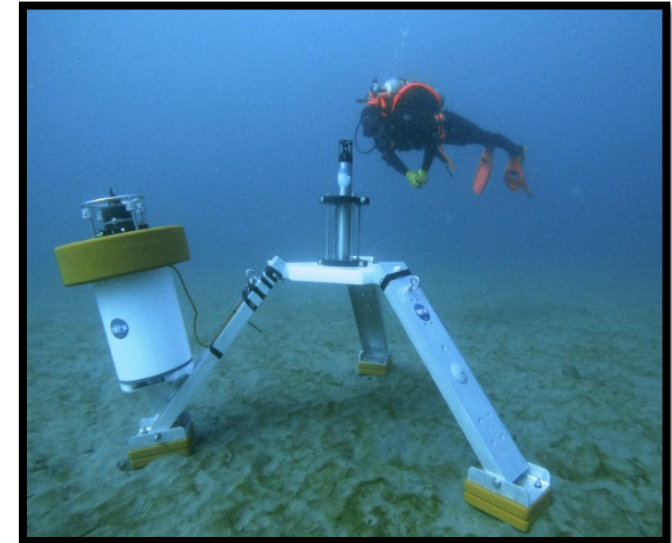


## DOE's only marine research facilities

- 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



# PNNL Sequim advances understanding of the world around us





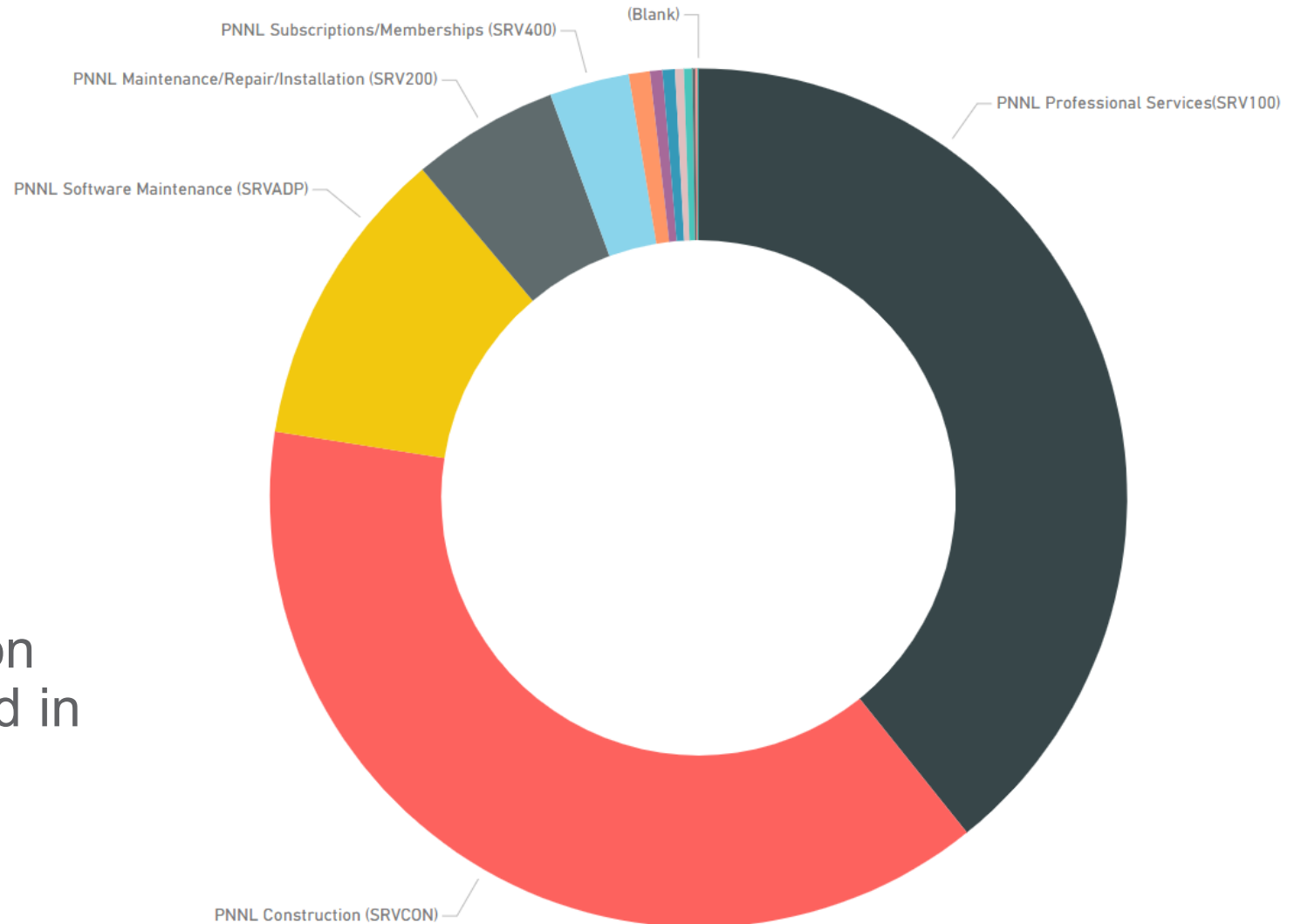
## What We Buy and How We Buy It



- VERY broad spectrum of goods and services through three purchasing mechanisms:
  - Subcontracts/Purchase Orders – high-risk/high dollar goods and services; \$453M in FY24
  - P-Card – low dollar goods (< \$10K) and services (<\$2,500); \$32M FY24
  - B2B – Commercial-off-the-shelf goods (<\$35,000) via eCommerce; \$17M in FY24
- 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

# FY24 Construction Spend

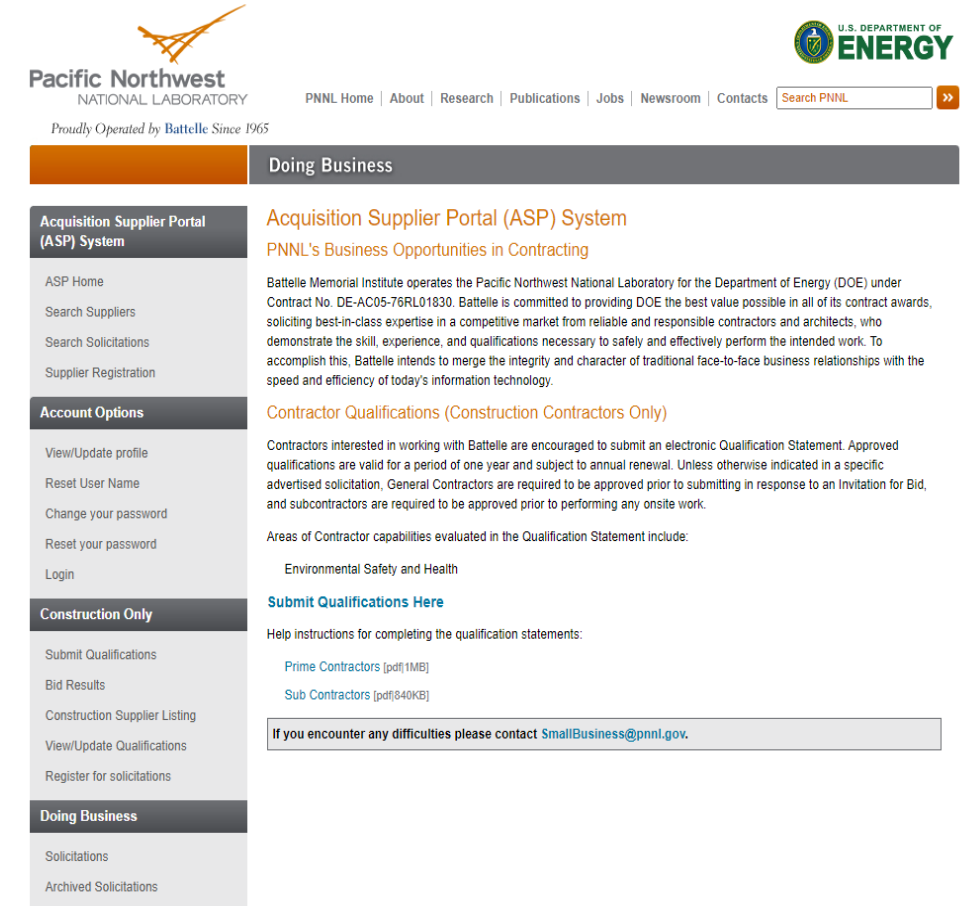
\$270M in Construction  
contracts were awarded in  
FY24





# 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 Pacific Northwest National Laboratory website. At the top, the PNNL logo and "Proudly Operated by Battelle Since 1965" are visible. The navigation bar includes links for PNNL Home, About, Research, Publications, Jobs, Newsroom, and Contacts, along with a search bar. The main content area is divided into two columns. The left column contains a sidebar with sections: "Acquisition Supplier Portal (ASP) System" (with links for ASP Home, Search Suppliers, Search Solicitations, and Supplier Registration), "Account Options" (with links for View/Update profile, Reset User Name, Change your password, Reset your password, and Login), "Construction Only" (with links for Submit Qualifications, Bid Results, Construction Supplier Listing, View/Update Qualifications, and Register for solicitations), and "Doing Business" (with links for Solicitations and Archived Solicitations). The right column features the "Acquisition Supplier Portal (ASP) System" heading, followed by "PNNL's Business Opportunities in Contracting" and a paragraph about Battelle Memorial Institute's role. Below this is the "Contractor Qualifications (Construction Contractors Only)" section, which includes a paragraph about the Qualification Statement and a list of areas evaluated: Environmental Safety and Health. A "Submit Qualifications Here" link is provided, along with help instructions for completing the qualification statements, including links for Prime Contractors (pdf 1MB) and Sub Contractors (pdf 840KB). A footer note states: "If you encounter any difficulties please contact SmallBusiness@pnnl.gov."

## Tips for working with PNNL

- Prior to Award/doing work with PNNL (continued)
  - Become familiar with the requirements for vendor setup –
    - ✓ SAM UEI # required
    - ✓ Registration in PNNL's Vendor Database and System for Award Management (SAM) or expect to fill out a MOSRC form
- Solicitation/Request for Proposal
  - Competitive solicitations posted externally >\$250K
- Review past “Doing Business with PNNL” webinars
  - <https://www.pnnl.gov/procurement/small-business-program>
- DOE Mentor Protégé Participation
  - Currently soliciting for construction Protégé



# 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](mailto:small.business@pnnl.gov)



# Future of PNNL Sequim Campus



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





## PNNL Sequim

- 90 miles (driving) north of Tacoma
- Only marine science laboratory in DOE complex
  - ~120 acres + ~50 acres of tidelands
  - 15,000 sq/ft of research facilities
  - Direct access into Sequim Bay
- Unique cultural and environmental requirements for construction





# PNNL CAMPUS AERIAL

Sequim, WA --- Date of Aerial 7-30-17



FY 19

TRAVIS SPIT

THE MIDDLE GROUND

- Sequim Campus (65 acres)
- Tidelands (52 acres)
- BMI Retained (63 acres)

Uplands

Shoreline





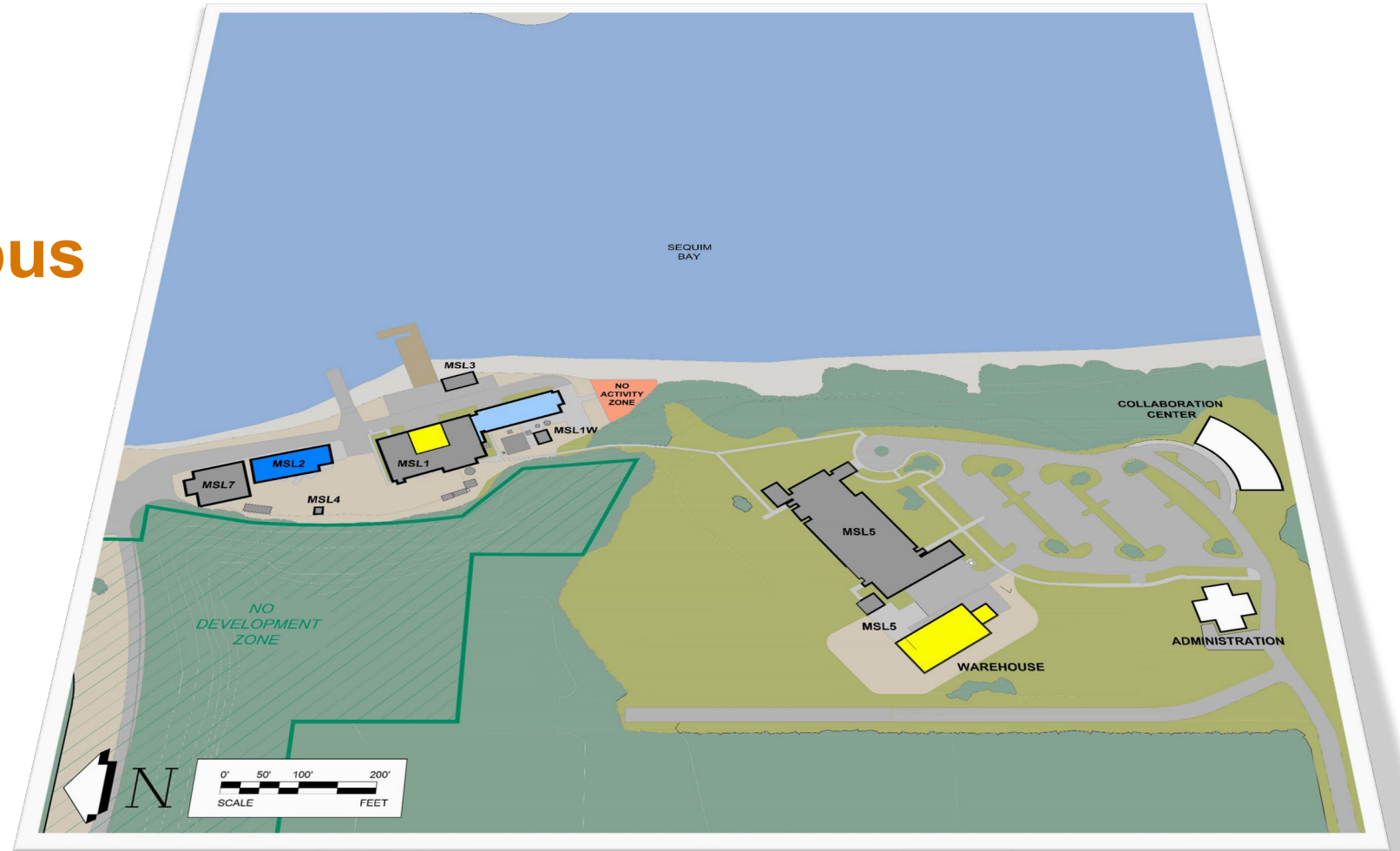
# Current and Near-term Construction Projects

- Campus Storage – FY24/25
- Research Accessible Shoreline – FY25
- Water and Sewer Conversion – FY25/26
- MSL 7 Office Relocation – FY25/26
- Water Distribution – FY26/27
- MSL 7 Demolition – FY26/27
- Bench to Bay Deployment and Applied Sciences Laboratories – FY26-28





# Long-Term Campus Strategy





# Architect / Engineer Design Opportunities

**Vincent Genetti**

Campus Design, Engineering & CAD



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# Partnering in design

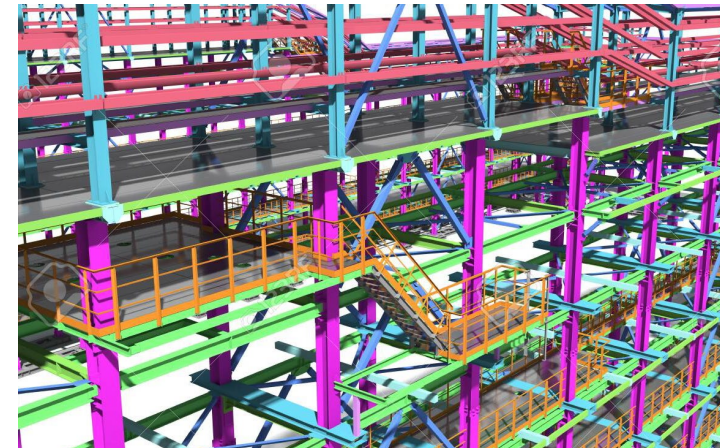
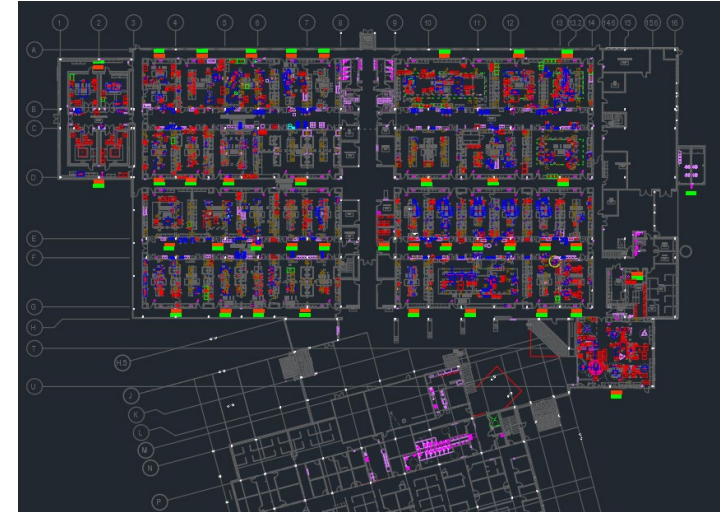
- Design professionals shall:
  - Be licensed and qualified
  - Be experienced in similar work
  - Comply with PNNL design standards and local/national Code of Records
  - Collaborate with PNNL
  - Propose innovative options / solutions
- Design expectations
  - Meet with PNNL design and research staff
    - ✓ Teleconference
    - ✓ On-site
  - Verify existing site / building conditions
  - Develop work scope
  - Utilize new technologies





## Partnering in design

- Design Expectations (continued):
  - Design performed using Revit software or approved 3D application
  - Issue specifications in CSI format
  - Coordinate with other design disciplines
  - Conduct regular design reviews
  - Informal (weekly)
    - ✓ Formal (30%, 60%, and 90%)
  - Provide cost estimates at the 60%, 90% and 100% deliverables.
  - Issue Contract Documents
  - Issue all documents in native electronic formats (Word, Excel, AutoCad, Revit, etc.)





# Contracting with PNNL for Construction

**Greg Moore**

Sr. Construction Contract Specialist



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





# Construction Wage Rate Requirements *(formerly Davis-Bacon Act)*

- Overview
  - Construction Wage Rate Requirements (CWRR)
  - Davis-Bacon Act (DBA)
- 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

- Compliance
  - Certified Payrolls
  - Onsite craft interviews
- LCP Tracker (website) – CWRR/DBA 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

**Greg Moore**  
Sr. Construction Contract Specialist



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# 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 section with links to ASP Home, Search Suppliers, Search Solicitations, and Supplier Registration; an 'Account Options' section with links to View/Update profile, Reset User Name, Change your password, Reset your password, and Login; a 'Construction Only' section; and a bottom link for Submit Qualifications. 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).

<b>IFB Number:</b>	<b>759336</b>
<b>Title:</b>	<b>3410 Chiller #3 Replacement</b>
<b>Location:</b>	3410 Material Science and Tech Lab, 622 Horn Rapids Rd, Richland, WA 99354
<b>Issue Date:</b>	3/22/2023
<b>Closing Date/Bid Opening:</b>	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#
<b>NAICS Code:</b>	236220 (Commercial & Institutional Building Construction)
<b>Restriction:</b>	None
<b>Contract Type:</b>	Firm Fixed Price
<b>Basis of Award:</b>	Sealed Bid: Lowest Price, Technically Acceptable meeting the mandatory criteria stated below
<b>MANDATORY Contractor Qualification Requirements:</b>	<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: <a href="https://ebs.pnl.gov/">https://ebs.pnl.gov/</a> .
<b>Duration/Completion:</b>	Project Complete ready for use, <u>No Later Than, 7/31/2023.</u>
<b>MANDATORY Virtual Pre-bid Meeting / Job Walk:</b>	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.  <b><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></b>  <b><u>Safety glasses, substantial footwear, and earplugs are required for this walk down.</u></b>

## 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*

### Table of Contents

1. NAICS Classification: 236220 (size standard \$45M) .....	2
2. Commencement, Prosecution, and Completion of Work [Adapted from FAR 52.211- 10 (Apr 1984)] .....	2
3. Bid Guarantee [Adapted from FAR 52.228-1 (Sept 1996)] .....	3
4. Contractor Prequalification — Construction .....	3
5. Amendments to Invitations for Bids [Adapted from FAR 52.214-3 (Dec 2016)] .....	3
6. False Statements in Bids [Adapted from 52.214-4 (Apr 1984)] .....	4
7. Submission of Bids.....	4
8. Explanation to Prospective Bidders [Adapted from FAR 52.214-6 (Apr 1984)].....	4
9. Late Submissions, Modifications, and Withdrawals of Bids [Adapted from FAR 52.214-7 (Nov 1999)].....	4
10. Period for Acceptance of Bids [Adapted from FAR 52.214-15 (Apr 1984)].....	5
11. Preparation of Bids—Construction [Adapted from FAR 52.214-18 (Apr 1984)] .....	6
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)

<b>Solicitation, Offer and Award</b>		Invitation For Bid Number: 650953	Date Issued: 6/28/2021	1 of 1
1. Description:  <i>3425 New Vestibule Addition and 3425 Liquid Nitrogen Distribution System Installation</i>		2. NAICS Code: 238220	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:  <a href="mailto:christina.ochs@pnnl.gov">christina.ochs@pnnl.gov</a>	10. TABLE OF CONTENTS Invitation for Bid (self-deletes upon award) Instructions to Bidders (self-deletes upon award)  <b>Part I – The Schedule</b> <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  <b>Part II – Contract Clauses</b> <input checked="" type="checkbox"/> Section I Contract Clauses  <b>Part III - List of Documents, Exhibits and Attachments</b> <input checked="" type="checkbox"/> Section J Attachments & Representations and Certifications
8. Offer Due Date:  7/21/2021, 3:00 PM PDT	
9. For Information Call: Christina Ochs Office Phone: 509-372-5937 E-Mail Address: <a href="mailto:christina.ochs@pnnl.gov">christina.ochs@pnnl.gov</a>	

### (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)

### 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.)

<b>**** BUSINESS SENSITIVE ****</b>			
<b><u>PNNL Construction Pricing Form</u></b>			
<b>IFB/RFP #:</b>		<b>Date:</b>	
<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. <b>All sheets must be filled out to be a valid form.</b></i></p>			
<b><u>Line</u></b>	<b><u>Bid Element</u></b>	<b><u>Price Breakdown</u></b>	<b><u>Rate Sheets</u></b>
1	A - LABOR	\$0.00	<b>A</b>
2	B - EQUIPMENT	\$0.00	<b>B</b>
3	C - MATERIALS	\$0.00	<b>C</b>
4	D - SUBCONTRACTS	\$0.00	<b>D</b>
5	<b>BASE AMOUNT</b> (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	<b>CLIN 1 - Fixed Price Contract Work</b> (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







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<b>STATEMENT AND ACKNOWLEDGMENT</b>					OMB Control Number: 9000-0066 Expiration Date: 4/30/2022
<p>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 (M111/CB), 1800 F Street, NW, Washington, DC 20405.</p>					
<b>PART I - STATEMENT OF PRIME CONTRACTOR</b>					
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 AWARDED 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					
<b>PART II - ACKNOWLEDGMENT OF SUBCONTRACTOR</b>					
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) Payrolls and Basic Records Withholding of Funds Disputes Concerning Labor Standards Compliance with Construction Wage Rate Requirements and Related Regulations			Construction Wage Rate Requirements Apprentices and Trainees Compliance with Copeland Act Requirements Subcontracts (Labor Standards) 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					
<b>STANDARD FORM 1413 (REV. 4/2013)</b> Prescribed by GSA/FAR (48 CFR) 53.222(e)					



# Construction Culture and Expectations

**Mike Hughes**  
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
  - Silica Plan
  - Hot Work Permit
  - Blind Penetration Permit
  - Fall Protection Work Plan
  - Confined Space Permit
  - Crane 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 (Carbon Steel Welding)
- Scanning (excavation and concrete)
- On-boarding (continuous)
  - Safety meetings
  - Lessons learned
  - Process improvements
  - Field observations





# Environmental

**Dan Edwards**  
Environmental



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# Environmental Expectations and Requirements

Regulatory Compliance as part of our Construction culture and processes, covered in the 016000 and 017600 specifications:

- Erosion / dust control
- Facility demolitions >120sqft must be registered with Olympic Region Clean Air Authority (ORCAA)
  - Asbestos mitigation and disposal
    - ✓ ORCAA permitting, >10 linear feet or >48sqft
    - ✓ Certified / accredited removal and disposal services
- Spill reporting, containment, and cleanup



# Environmental Protection & Waste Management

- Stormwater –
  - Western WA Stormwater Management Manual
    - ✓ Design and construction
  - State/Federal Construction General Permits
  - Stormwater Pollution Prevention Plan (SWPPP)
    - ✓ Best management practices
    - ✓ Compliance monitoring and reporting
- On-site wastewater management (e.g., concrete wastewater, discharges to sewer, brick washing, etc.)
- Waste management/recycling
  - Waste and recycle submittal (overall 50% diversion target from landfill)
  - Waste/Recycling Plan for larger projects





## Environmental – Cultural and Biological Aspects

- Cultural / historic resources (e.g., Tribal artifacts, 50+ year-old facilities)
  - PNNL agreements with State Historic Preservation Office and Tribes
  - Notifications, monitoring, reporting
- Biological resources (e.g., plants, animals)
  - Migratory birds, nesting eagles,
  - Tree removal
  - In-water work





# Quality Requirements

**Mark Manderbach**



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# Quality at PNNL – Requirement flow down





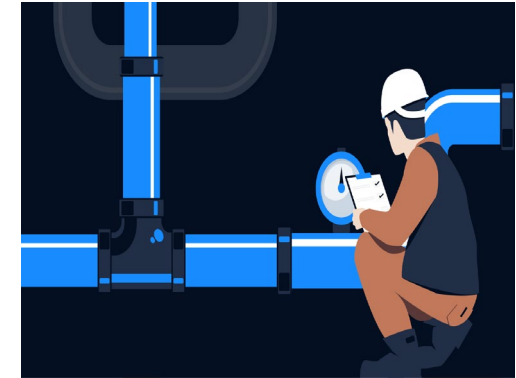
# Contractor Quality Requirements

## Where to look for Quality requirements

- RFP/IFB QA-Clauses
- DIV 01 – 4000 and Field Quality Control specification sections
- General Provisions – Suspect/Counterfeit Items
  - DOE Requirement – DOE Order 414.D, Attachment 3
- Statement of Work

## Items to be cognizant of – post award

- Submittals – Pre-work / Post-work submittals
- Submittal requirements directly impact invoicing
- Documents are filled out completely and accurately
- Identify internal QA/QC personnel that will assure contract/design compliance
- PNNL on-site surveillances and inspections
  - Walking down construction sites with QA/QC checks





# Wrap Up and Q&A



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