SLAC Small Business Opportunities Day

Small Business Program

14 May 2025

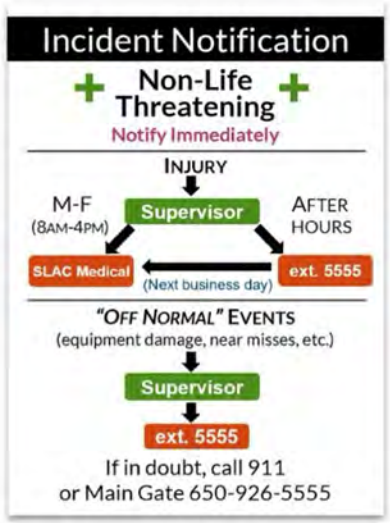
SLAC NATIONAL ACCELERATOR LABORATORY

Stanford University | U.S. DEPARTMENT OF ENERGY

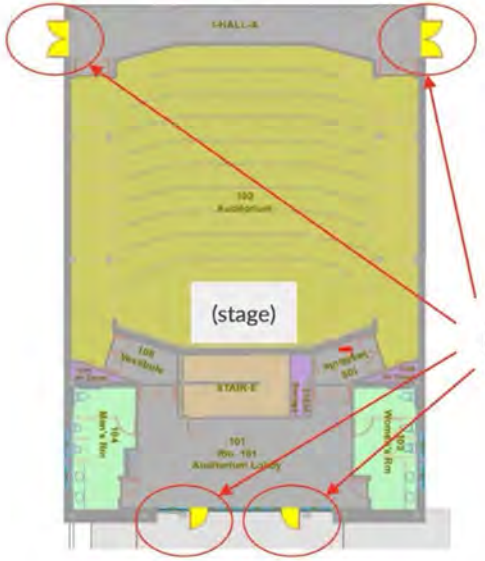
Safety Moment | Opening Remarks

Nicole Colley, Operations Strategy Manager, Supply Chain Management
SLAC National Accelerator Laboratory

Safety Reminder



Kavli Auditorium emergency evacuation and assembly plan



Note the 4 exits in Kavli

Assemble at the Main Quad

During an earthquake: duck, take cover and hold position until shaking stops, then proceed to evacuate building

Welcome

John P. Connolly, Deputy Director for Operations and Chief Operating Officer
SLAC National Accelerator Laboratory

SLAC National Accelerator Laboratory

Small Business Opportunity Day

John P Connolly, Deputy Director for Operations and Chief Operating Officer

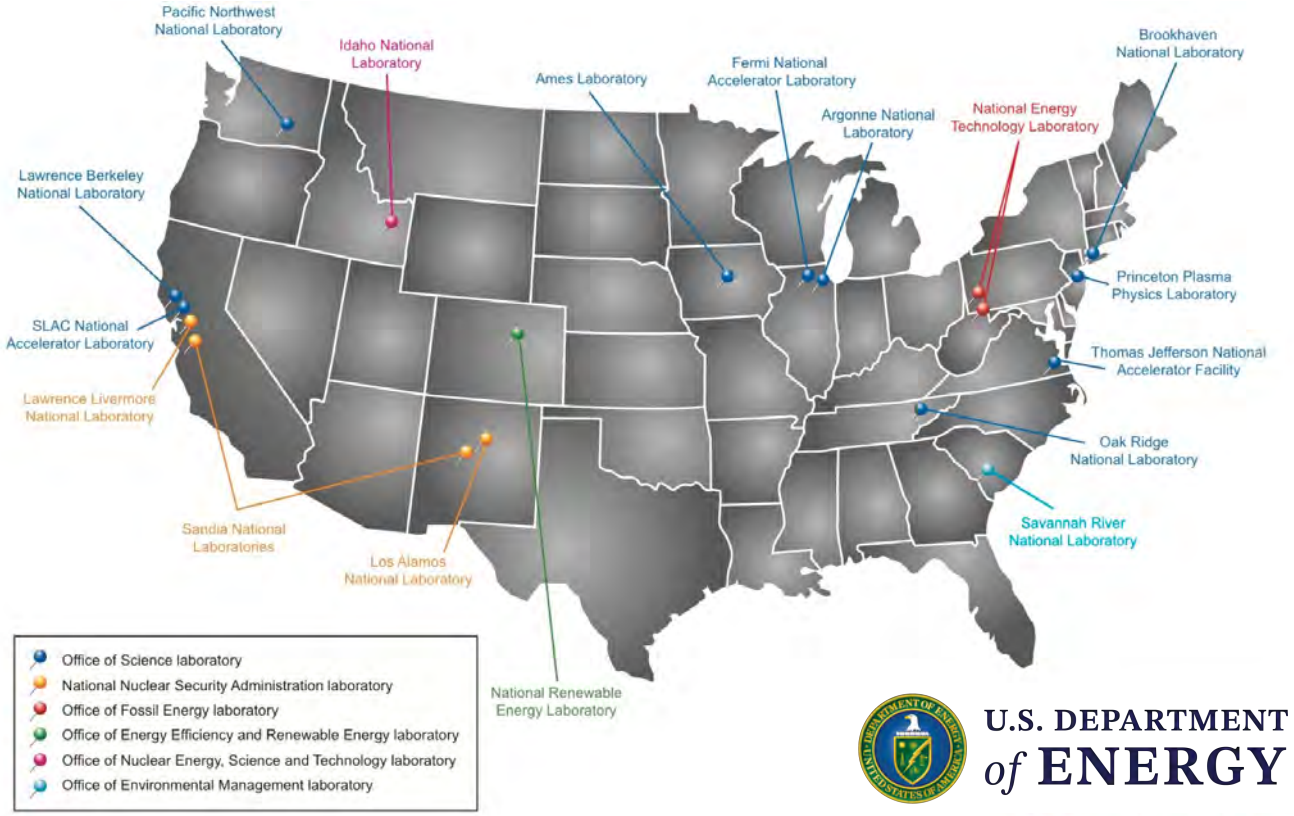
May 14, 2025

SLAC NATIONAL ACCELERATOR LABORATORY

Stanford University | U.S. DEPARTMENT OF ENERGY

The Department of Energy's scale and impact

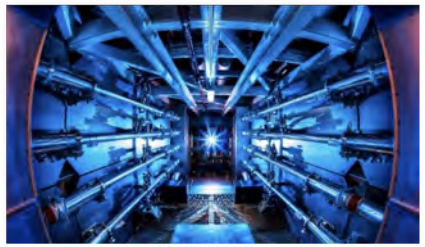
The U.S. Department of Energy national laboratory system is unique in the world in scale & impact



U.S. DEPARTMENT of ENERGY

DOE Mission Areas

National Security | Science & Technology | Energy | Environmental Management



Mission, Vision and Values

Mission

We explore how the universe works at the biggest, smallest and fastest scales and invent powerful tools used by scientists around the globe. Our research helps solve real-world problems and advances the interests of the nation.

Vision

We open new windows to the natural world and build a brighter future through scientific discovery.

2100+ staff

46 faculty

134 postdocs
338 students

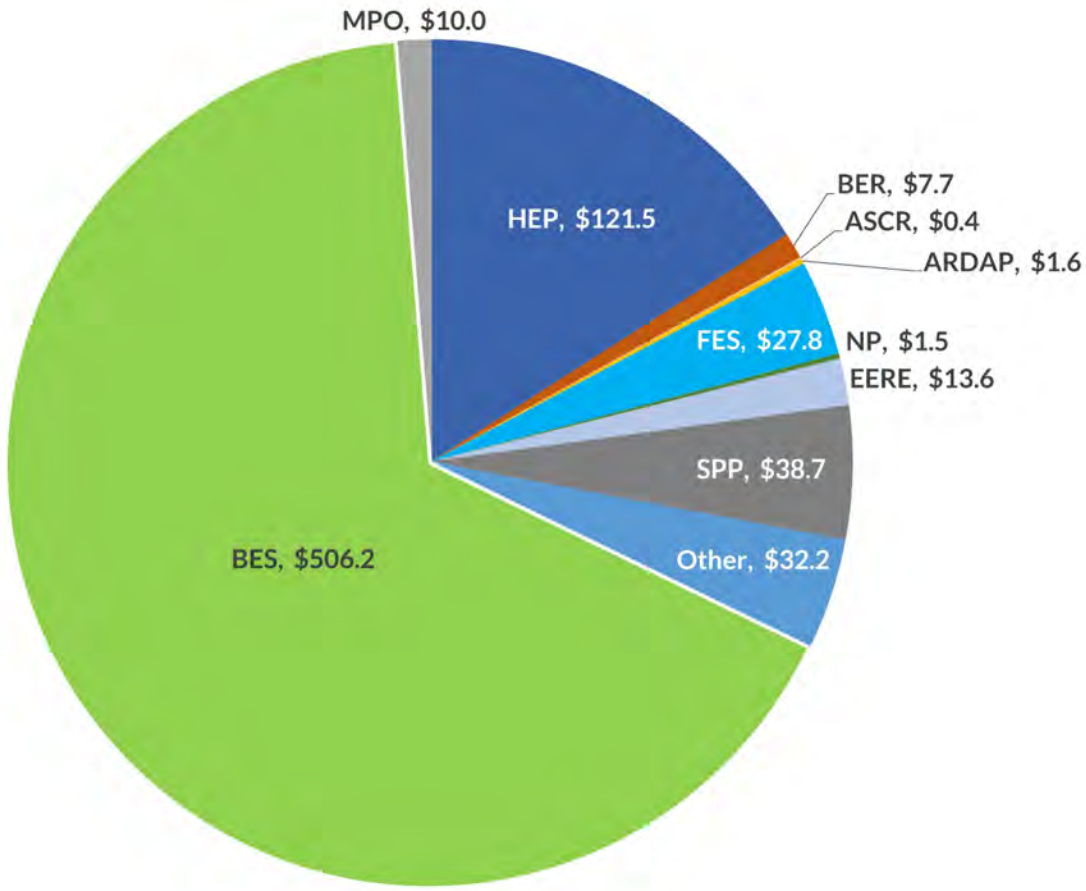
>2,000 visiting scientists/users

Our campus

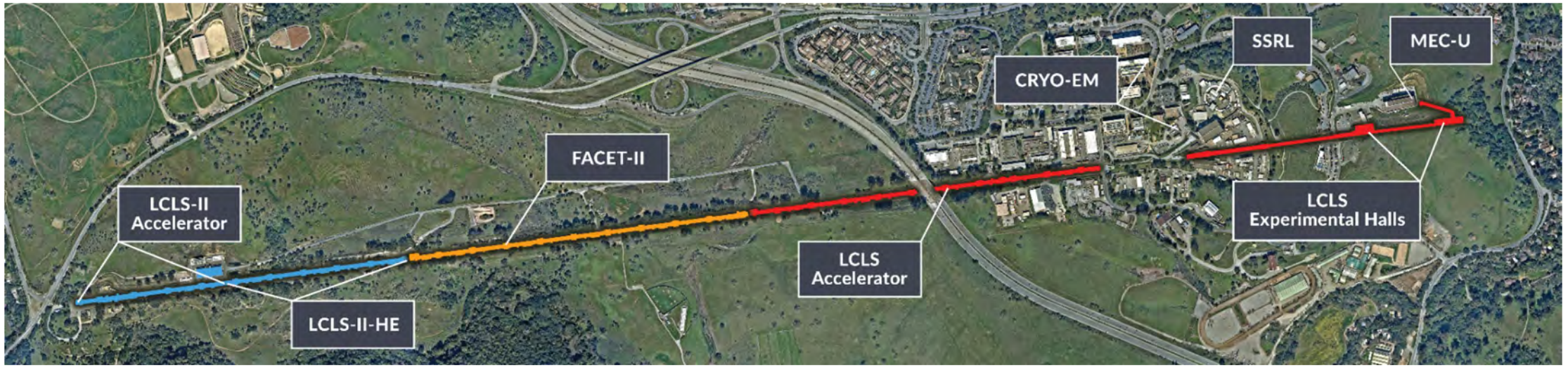
The laboratory sits on 426 acres of Stanford land in the heart of Silicon Valley

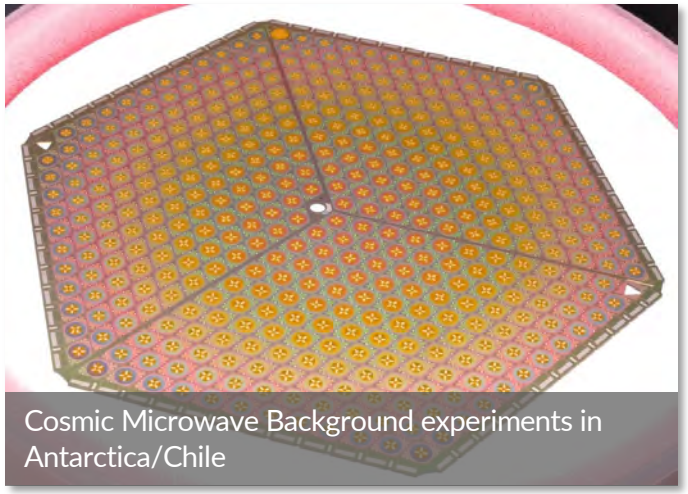
Today, SLAC is a vibrant, multi-program laboratory

FY25 Funding Forecast: $800M

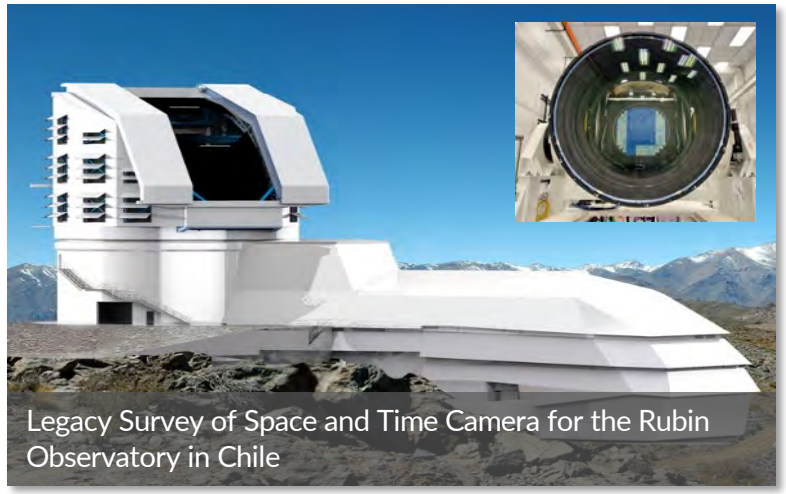


As a DOE Office of Science lab, SLAC is focused on scientific discovery





Cosmic Microwave Background experiments in Antarctica/Chile



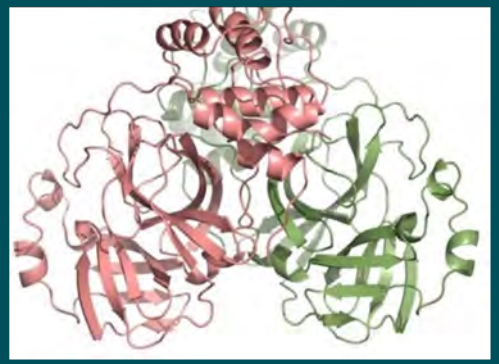
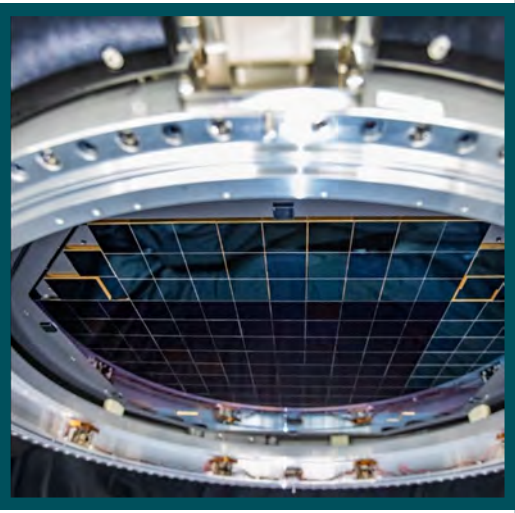
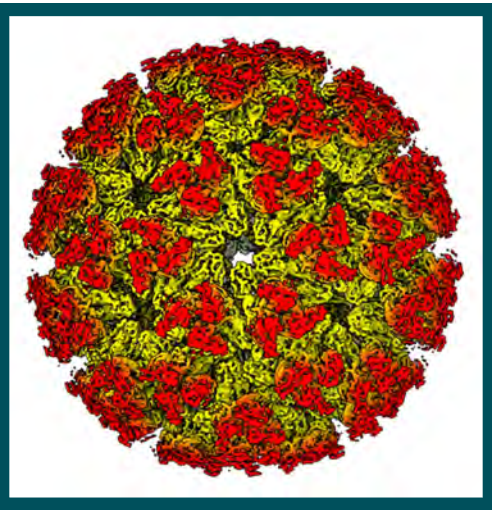
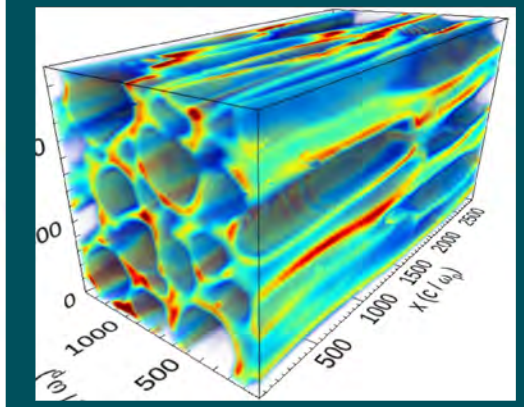
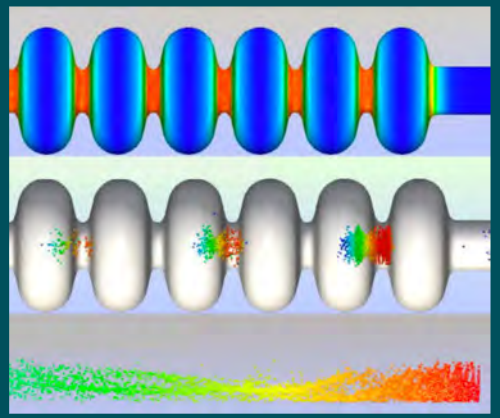
Legacy Survey of Space and Time Camera for the Rubin Observatory in Chile

Super Cryogenic Dark Matter Search in Canada

We explore how the universe works at the biggest, smallest and fastest scales and invent powerful tools used by scientists around the globe.

Innovate massive-scale data analytics

Robust computational capabilities are critical to all laboratory initiatives

Macromolecular crystallography	Vera Rubin Observatory	Cryo-EM	HED simulation	Accelerator modeling
				
X-ray & Ultrafast	**Physics of the Univ.**	**Biosciences**	**HED Science**	**Accelerator Science**
Up to 1,000 GB/s 1,000 PFLOPS 25% GPU | 75% CPU	100 GB/s 1 PFLOPS 100% CPU	3.5 GB/s 500 PFLOPS 100% GPU	5 GB/s 5 PFLOPS 10% GPU | 90% CPU	1 GB/s 5 PFLOPS 25% GPU | 75% CPU


Thank you!

Doing Business with SLAC National Accelerator Laboratory

Jennifer Aral, Interim Supply Chain Management Director /
Procurement Operations Manager

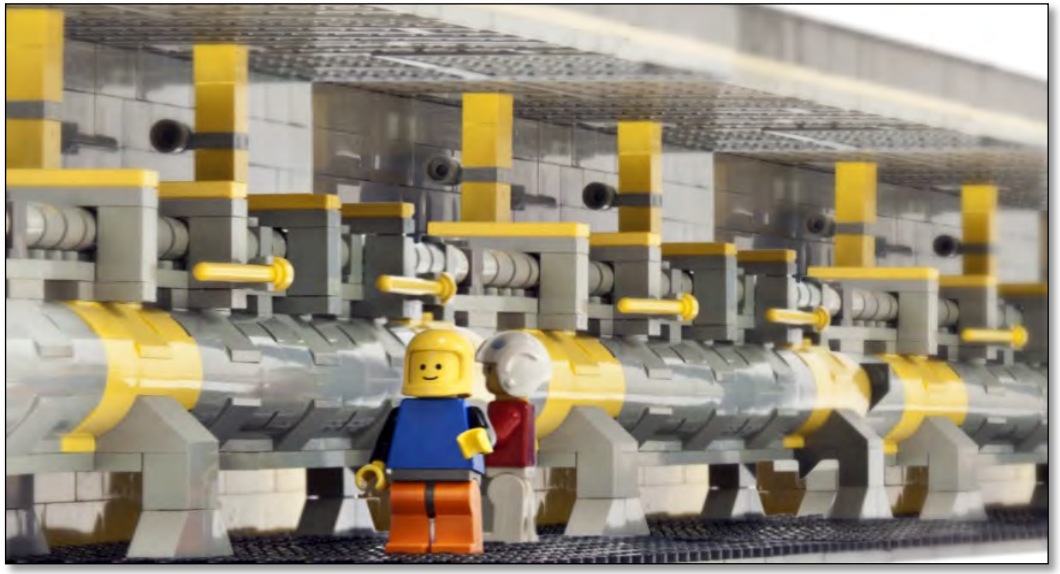
SLAC National Accelerator Laboratory

Outline

- SCM Procurement Organization
- Small Business Program
- Procurement Process Overview
- Solicitation/RFP Expectations

Supply Chain Management Procurement Organization

The **Mission** of the SCM Procurement Department is to provide acquisition services to support the accomplishment of the goals and objectives of SLAC's world class research program activities.



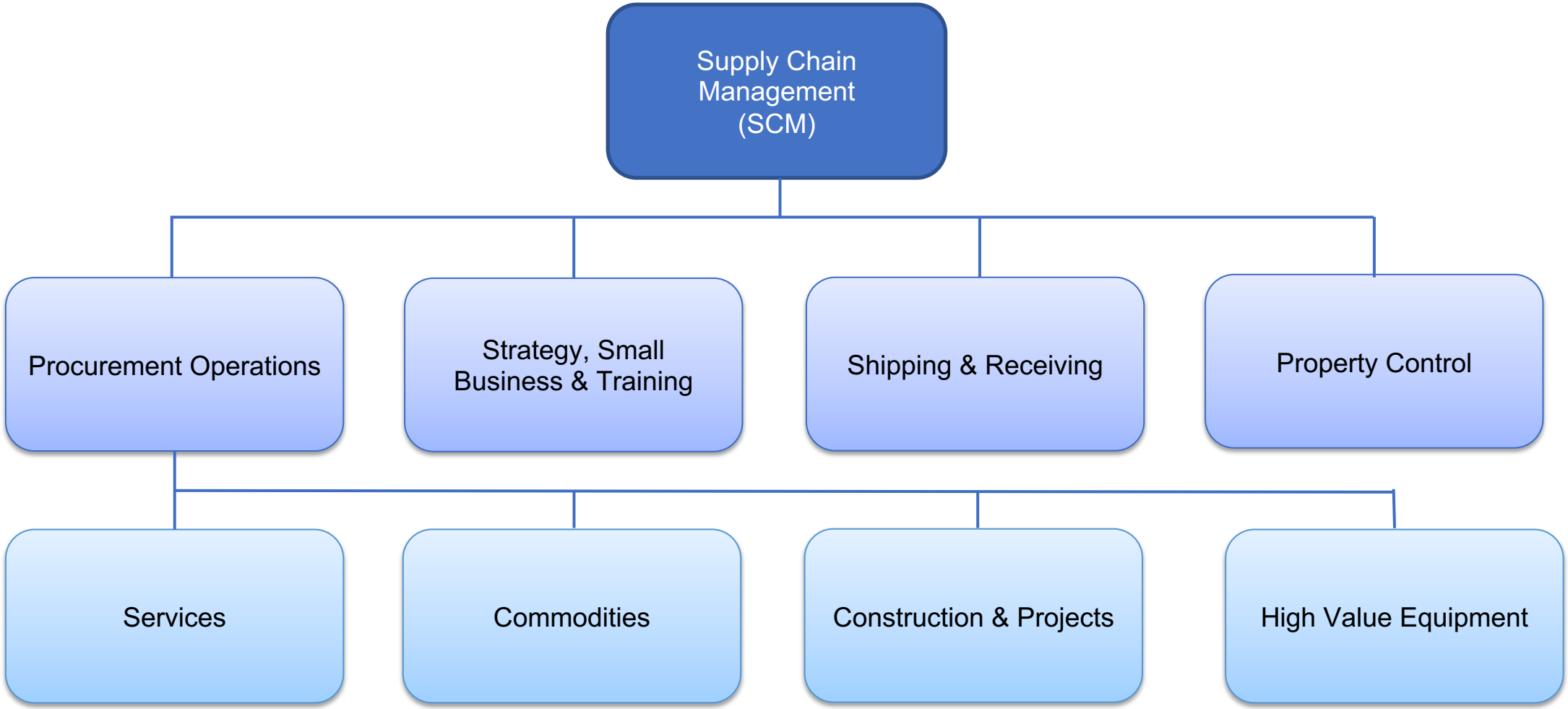
The **Vision** of the SCM Procurement Department is to deliver products or services to our customers on a timely basis that provide the best value, are responsive to customer needs, in accordance with established compliance requirements, and employ the best business practices to the maximum extent possible.

Supply Chain Management Procurement Organization

- SLAC is a Federally Funded Research & Development Center (FFRDC) managed and operated by Stanford University, in accordance with its prime contract with the Department of Energy (DOE)
- Congressional appropriated (taxpayer) funds
- SLAC General Terms and Conditions are in line with the prime contract with the DOE
  - Includes ***specific*** Federal Acquisition Regulations (FAR)
- Procurement policy and processes are developed to ensure **compliance** to the prime contract
  - Multiple routine internal and external audits
  - Focus is on the process of **how** we procure
- Only Procurement is authorized to **contractually obligate** SLAC to spend or delegate DOE Funds

Do not start work until a Purchase Order/Subcontract is issued by SLAC Procurement!

Supply Chain Management Procurement Organization



What do we buy?

Services	Commodities	Construction	High Value Equipment
• Landscaping Services • Janitorial Services • Contract Labor • Equipment Maintenance • F&O and ES&H Support • Rental/Lease Agreements • Engineering Services • [illegible] • [illegible] • [illegible]e	• Fabricated items • Test and measurement Equipment • Laboratory equipment • Building equipment • Controlled substances (precious metals,	• Architect/Engineering Design Services • Building construction • Laboratory Infrastructure Projects • Capital 413.3b Projects	• Equipment acquisitions over $250,000 • Complex projects requiring subcontractor design with technical reviews, fabrication, and/or installation.

SLAC Quad

Cryoplant helium gas storage tanks

Tailgate for LCLS-II CDS

LSST Camera

Small Business Program @ SLAC

SLAC's commitment to Small Businesses is to provide competitive contract opportunities to our communities to drive down costs and increase innovation in support of SLAC's mission.

Socio-economic metrics

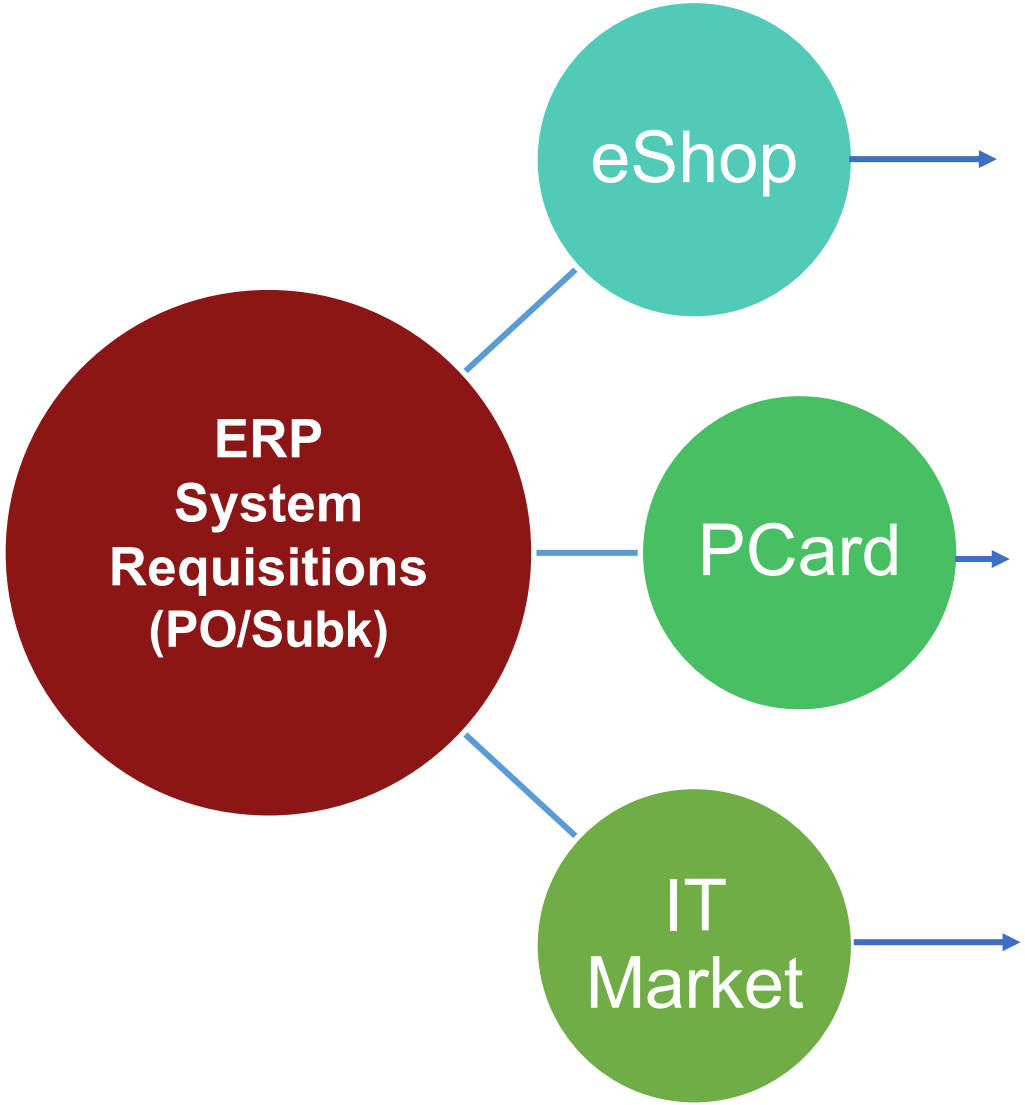
It is SLAC's policy to provide opportunities to small business concerns, in accordance with our prime contract with the Department of Energy.

Business Classification	Actual % FY22	Actual % FY23	Actual % FY24	Target FY25	# of Suppliers FY25 (YTD)
Small Business	62.86%	70.39%	62.05%	50%	392
Small Disadvantaged Business	16.91%	29.29%	17.72%	5%	82
Hub Zone	1.92%	.53%	2.03%	3%	6
Veteran Owned	12.13%	11.01%	12.03%	4%	16
Service-Disabled Veteran	3.91%	1.99%	3.67%	3%	6
Women-Owned	9.24%	2.98%	9.00%	5%	49
Small Business Award Value	**$62.9M**	**$90.3M**	**$139.8M**		

Top 10 UNSPC by Total Spend for FY24

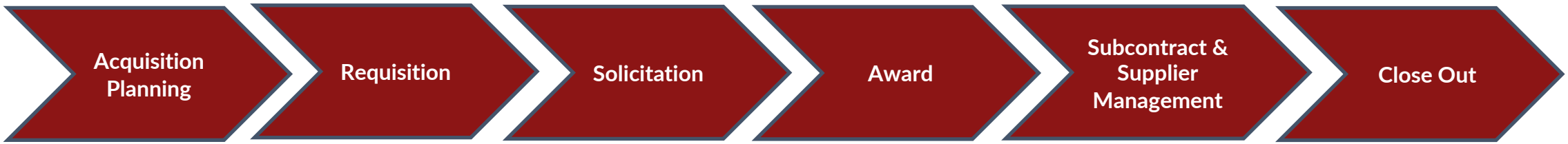
UNSPC	UNSPC Description	FY24 Total Spend
41000000	Laboratory, Measuring, Observing and Testing Equipment	$18.8M
64800000	MPO-Goods and Services	$16.7M
72000000	Building, Facility Construction and Maintenance Services	$10.6M
31000000	Manufacturing Components and Supplies	$10.6M
81000000	Engineering and Research and Technology Based Services	$10.3M
41100000	Laboratory and Scientific Equipment	$7.8M
81100000	Professional engineering services	$7.0M
43210000	Computer Equipment and Accessories	$6.4M
43230000	Software	$5.2M
32100000	Printed Circuits and Integrate	$4.8M
30190000	Construction and Maintenances	$4.6M

Procurement Spend Channels



- Online ordering service for regular Commercial Off-the-Shelf/Catalog commodities
  - Purchase Orders are auto-generated and sent electronically to our eShop Supplier for fulfillment
- Used for one-time purchases via SLAC issued credit card
  - Typical monthly purchase limit is $10,000 (varies by card holder)
- One-stop shop to research and order SLAC IT approved standard desktop computers, laptops, and accessories

Procurement Process Overview



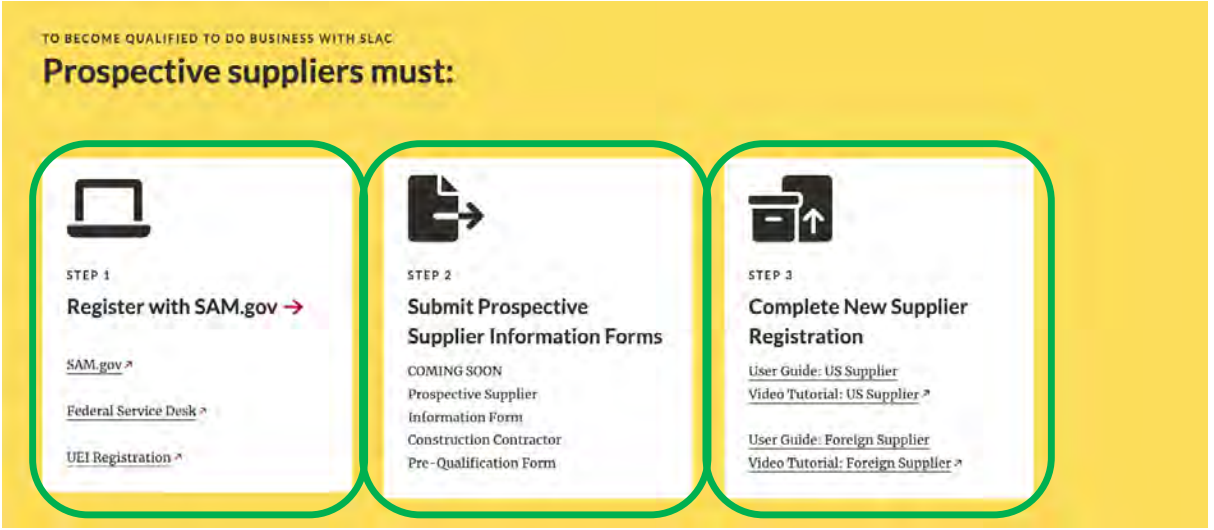
- ***Acquisition Planning*:**
  - Ensures SLAC meets its needs in the most effective, economical, and timely manner
- ***Requisition***:
  - Submitted via ERP System; provides the funding source and initiates the Procurement process
- ***Solicitation***:
  - Formal Requests for Proposal/Quote (RFP/RFQ) to Industry
- ***Award*:**
  - Subcontract/Purchase Order is signed and issued for the Subcontractor to begin work or deliver goods
- ***Subcontract & Supplier Management*:**
  - Manage and track Subcontract and Supplier performance
- ***Close Out*:**
  - Ensure Subcontract requirements are complete and accepted, payments validated and processed, property is returned/dispositioned, and funds/encumbrances are de-committed in a timely manner

How to become a SLAC Supplier

Register at SLAC's Website: **https://suppliers.slac.stanford.edu/**

- **Supplier Registration Requirements:**
  1. Completed/signed current IRS W9 Form
  2. *Address Information*: Main, Order/Invoice, and Remittance
  3. Current billing/Accounts Receivable and Main Point of Contact (name, title, phone, and email)
  4. Bank information on company or bank letterhead
  5. Must have an **active** SAM.gov Account
     - SAM.gov Registration: **https://sam.gov/**
     - No-charge (**free**) registration
     - Unique Entity Identification (UEI) Number
- **Prospective Supplier Information**

Reminder: SAM.gov and SLAC Supplier accounts must be maintained



Solicitation/RFP Expectations

SLAC competes more than 85% of our acquisition needs

- All construction subcontract type is Fixed Price (Design-Bid-Build or Design-Build)
- Draft Request for Proposal (RFP) packages for construction >$250k are posted as a Sources Sought on SAM.gov and/or directed to known and qualified sources
  - Interested bidders must contact the listed Procurement Specialist to receive the formal RFP
- RFP packages provide detailed guidance for the development, issuance and evaluation of proposals
  - Technical and Business Documentation
  - Evaluation Criteria and Evaluation Method
  - SLAC Terms and Conditions
- Competitive Evaluation Methods:
  - Lowest Price Technically Acceptable (LPTA)
  - Best Value / Trade-Off (BVTO)

Solicitation/RFP Expectations

- The Procurement Specialist is the **sole** Point of Contact for bidders during an active solicitation
  - Direct communication between a bidder and a member of the project team may be grounds for disqualification
- RFP Cover Letter identifies if there will be a site walk held prior to the proposal due date
- All construction subcontracts are Davis-Bacon Act applicable
  - Latest Wage Determination will be included with solicitation and award
  - Requires weekly certified payroll submission into LCPTracker, including non-performing week(s)
- A Safety Qualification Form (SQF) is required as part of the construction proposal package
  - An approved SQF is valid for one year
- Payment and Performance bonds are required on all construction subcontracts >$35k
  - Bonding amount must match the subcontract amount
  - Only approved sureties are authorized to bond subcontract
  - Change Orders will require a bond rider to match updated subcontract amount

Solicitation/RFP Expectations (cont'd)

Request for Information (RFI)

- Complex acquisitions may include a RFI deadline
  - Bidder to submit questions/clarification in the form provided for SLAC response
  - Full RFI Log will be provided to all potential bidders prior to proposal due date

Solicitation/RFP Amendments

- Issued only by the noted SLAC Procurement Specialist
- Requires acknowledgement by the potential Bidder
- Amendments issued ***before*** proposal due date will be issued to all suppliers receiving the solicitation
- Amendments issued ***after*** proposal due date will be issued only to the suppliers that are eligible for award
- SLAC can cancel original solicitation and issue a new one for ***significant*** changes
- Proposals may be modified if the request is made ***before*** the proposal due date

Review RFP instructions carefully for site walk and/or RFI submission deadlines and required qualifications

Solicitation/RFP Expectations

Solicitation Timeline Considerations

- Varies by acquisition value, complexity, category (goods/services/construction), or if there are changes in the Federal Acquisition Regulations (FAR)
- Estimated Procurement Award Lead Times (business days)*
  - <$25K = 1 to 15 days
  - $25K - $250K = 15 to 45 days
  - $250K - $500K = 30 to 60 days
  - $500K - $25M = 90 to 180+ days
  - >$25M = 180 to 365+ days
- Each threshold has different policy and procedural requirements
- Any procurement can have its own set of challenges leading to variation in time to award.

Actual Subcontract awards in each threshold may be more or less than noted lead times

Thank You!

SLAC National Accelerator Laboratory
Major Projects Overview
Cryomodule Repair & Maintenance Facility (CRMF)

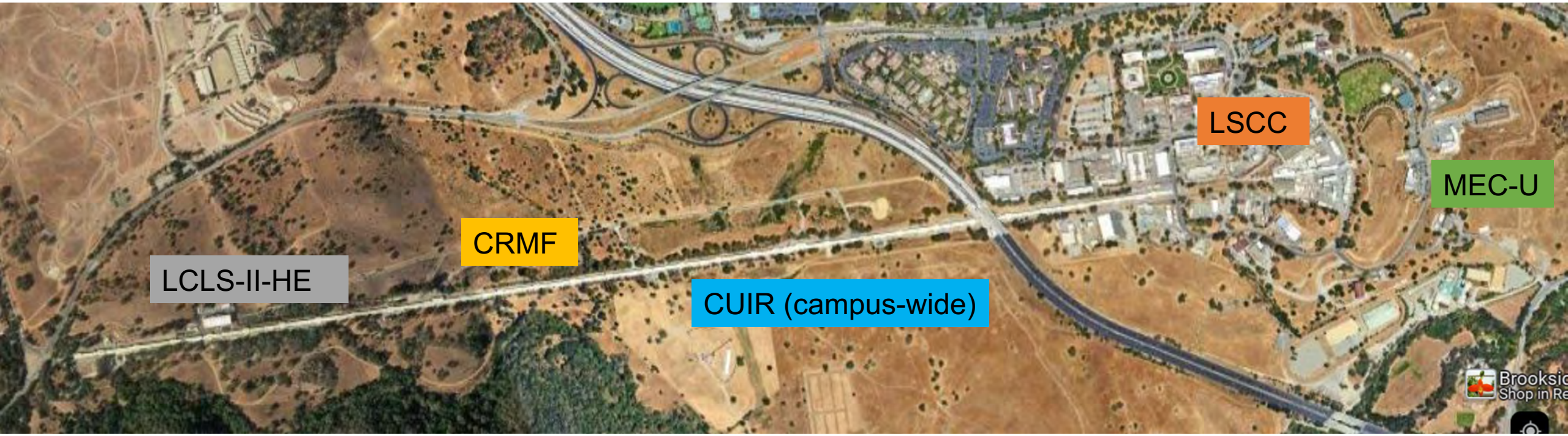
Martina Martinello, Project Director
John Azevedo, Senior Subcontract Administrator (tigger@slac.stanford.edu)

SLAC National Accelerator Laboratory

Outline

- SLAC Project Overview
- Mission of CRMF
- Project scope
- CRMF Procurement Opportunities

Major Project Overview

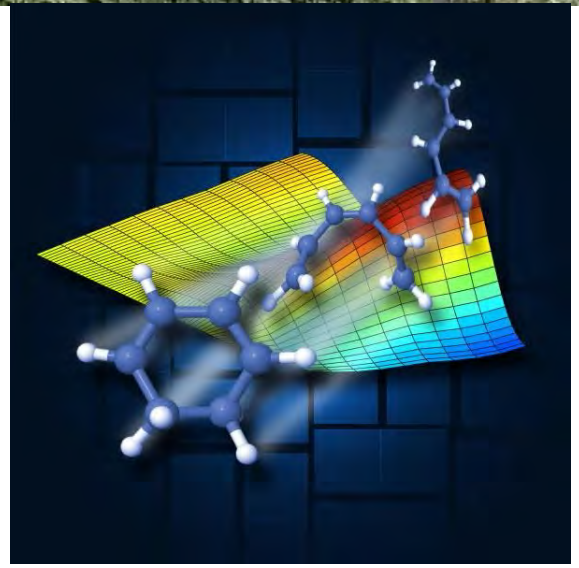


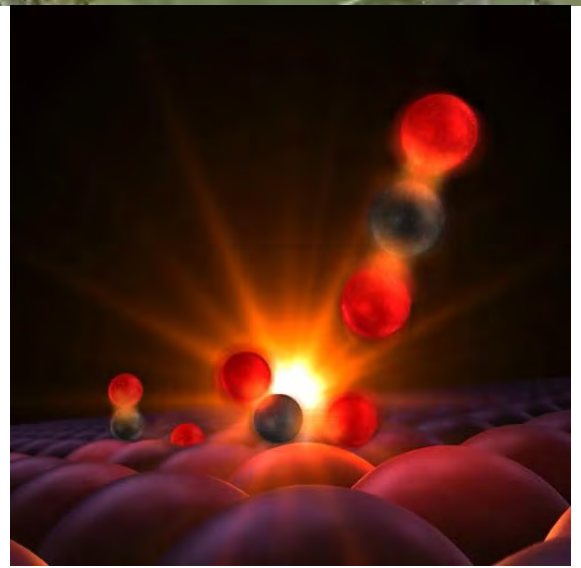
Outline

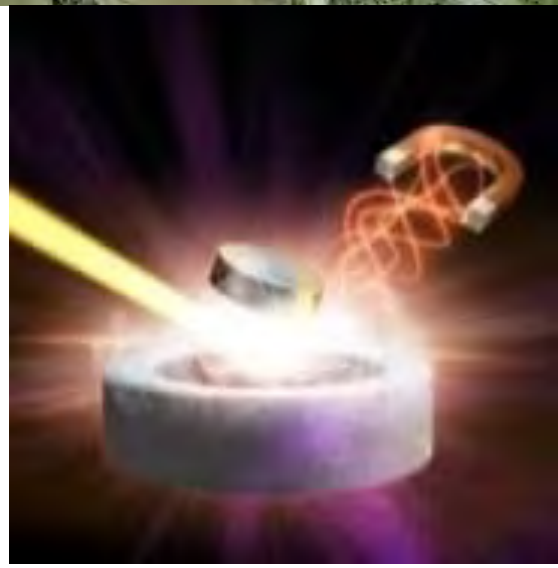
- SLAC Project Overview
- **Mission of CRMF**
- Project scope
- CRMF Procurement Opportunities

Linear Accelerator complex at SLAC

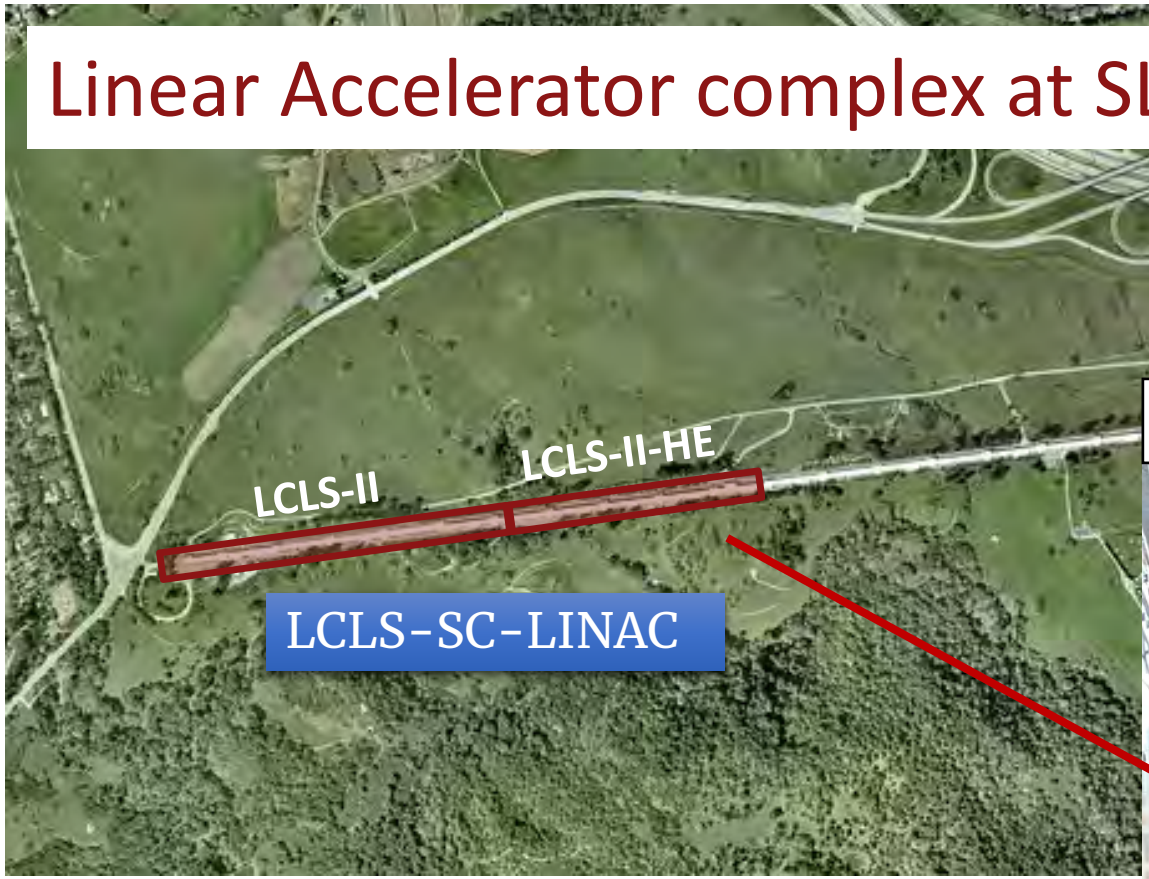
LCLS takes X-ray snapshots of atoms and molecules at work, providing atomic resolution detail on ultrafast timescales to reveal fundamental processes in materials, technology and living things.







Linear Accelerator complex at SLAC

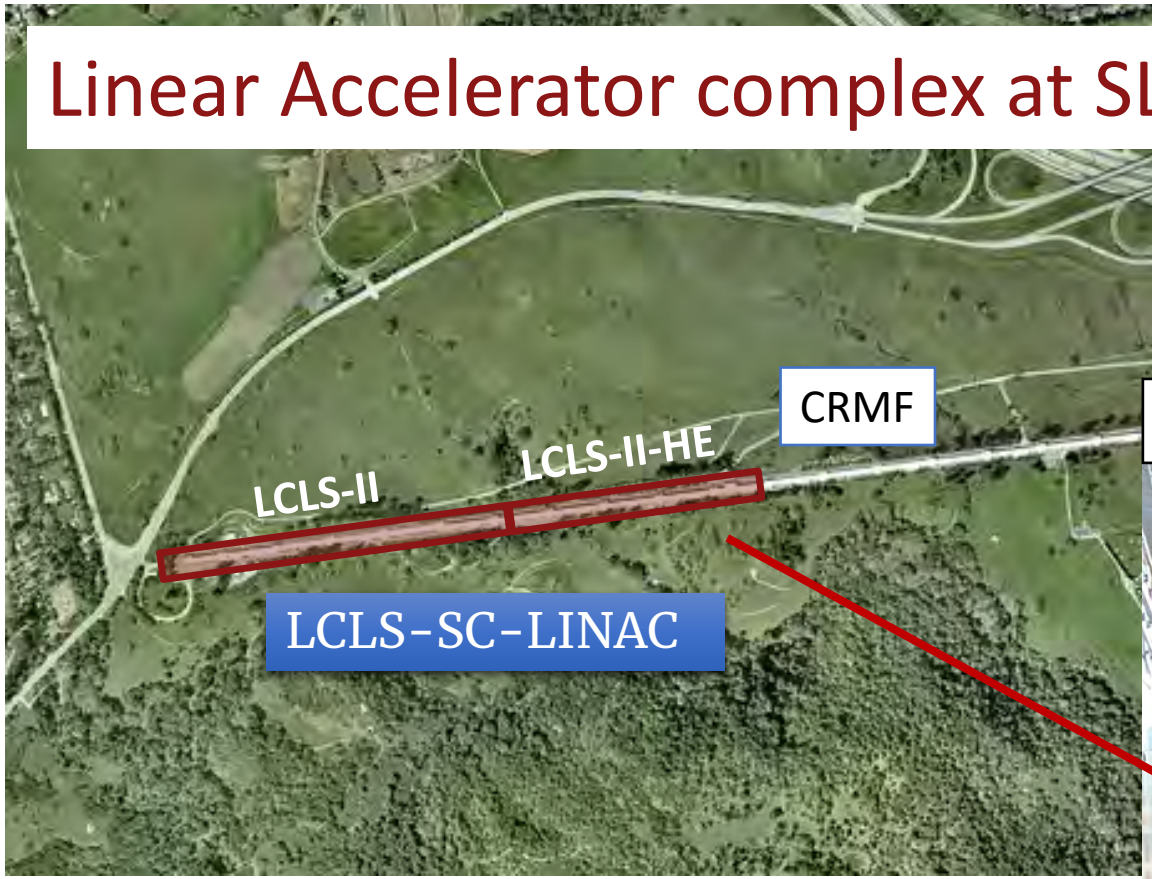


View of superconducting cryomodules in the LCLS-II tunnel

Superconducting Cryomodules are the building blocks of the LCLS-SC-LINAC

SLAC

Linear Accelerator complex at SLAC



View of superconducting cryomodules in the LCLS-II tunnel

Superconducting Cryomodules are the building blocks of the LCLS-SC-LINAC

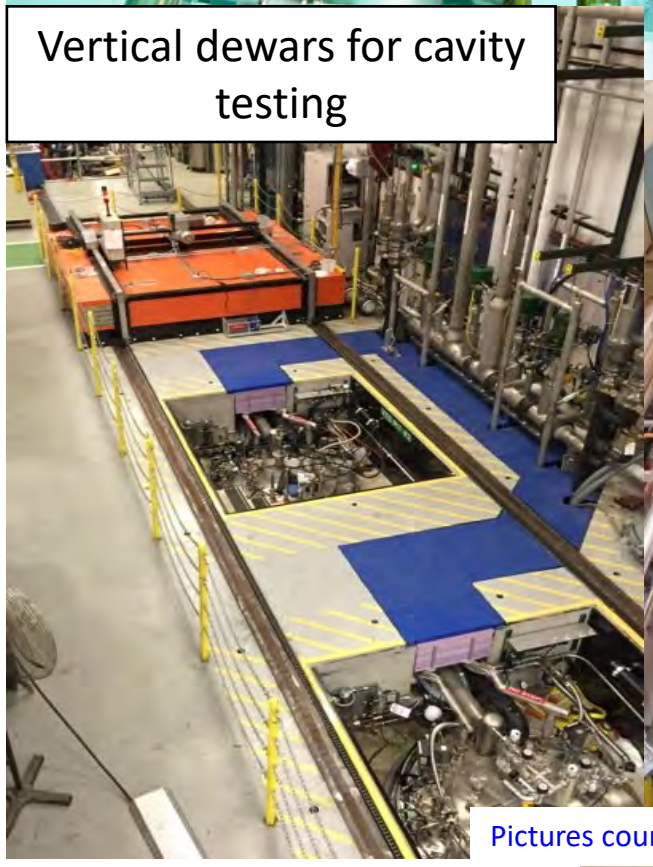
SLAC

Mission of CRMF

CRMF: Cryomodule Repair and Maintenance Facility

- ~ 2-3 CMs/year expected to need to be repaired based on current data
- CRMF is needed to repair, test and maintain superconducting cryomodules at SLAC

CRMF needed at SLAC to ensure the performances of cryomodules are preserved over the lifetime of the accelerator



Pictures courtesy of FNAL

Outline

- SLAC Project Overview
- Mission of CRMF
- **Project scope**
- CRMF Procurement Opportunities

Project Scope: New 21,000 GSF Building at SLAC

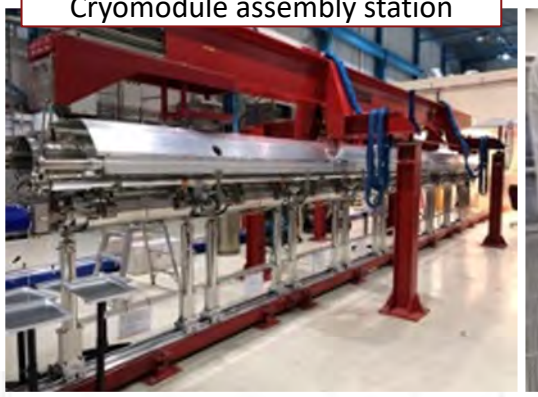
Aerial Rendering from

Cryomodule Repair and Maintenance Facility (CRMF)

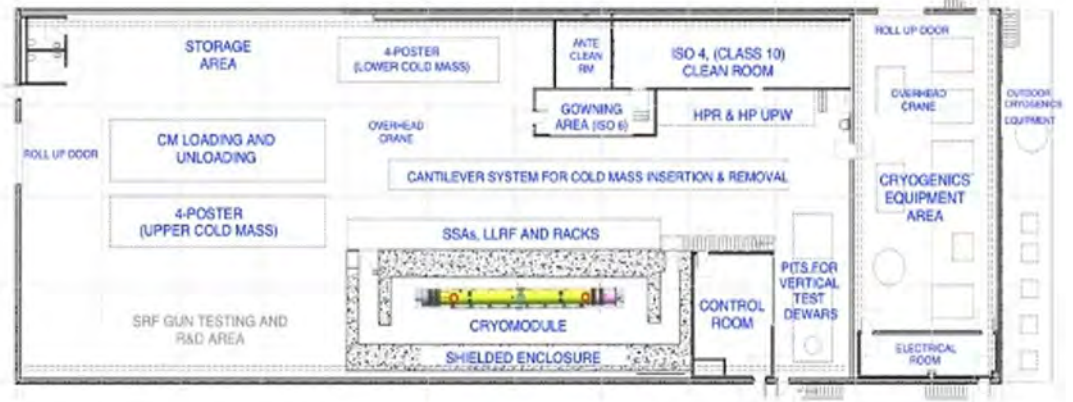
CRMF Project Scope (high level):

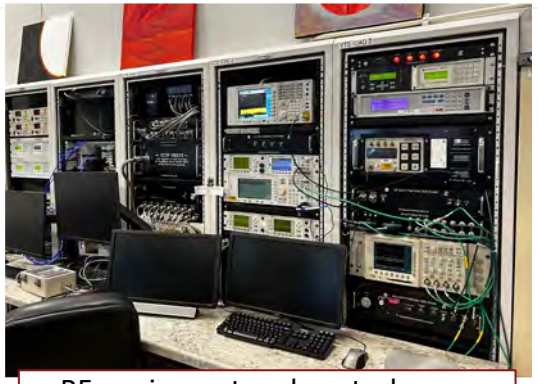
- Construction of **new ~ 21,700 GSF building** to accommodate full cryomodules disassembly, re-assembly and testing
- Concrete **shielded enclosure**, **RF equipment** and **control room** for cryomodule testing
- **Pits** for future development of dewars for SRF cavities testing
- **ISO-4 cleanroom** for cavities clean string assembly
- Installation of **cryomodule assembly tooling**
- **Cryogenic equipment** to supply LHe to allow for cryomodule and superconducting cavity testing (T = 2K = -456ºF)

Cryomodule assembly station



String assembly in ISO4 cleanroom

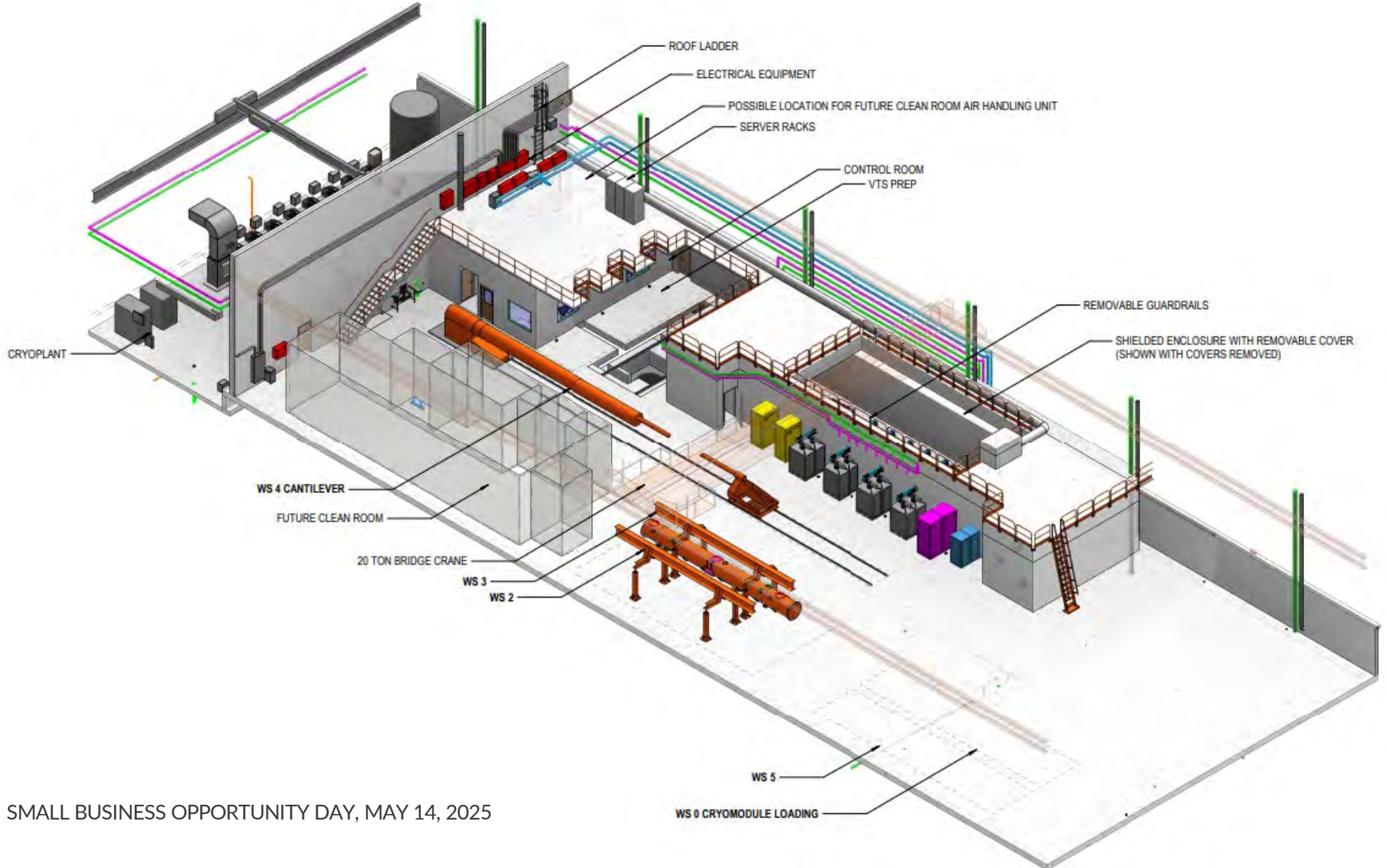




RF equipment and control room

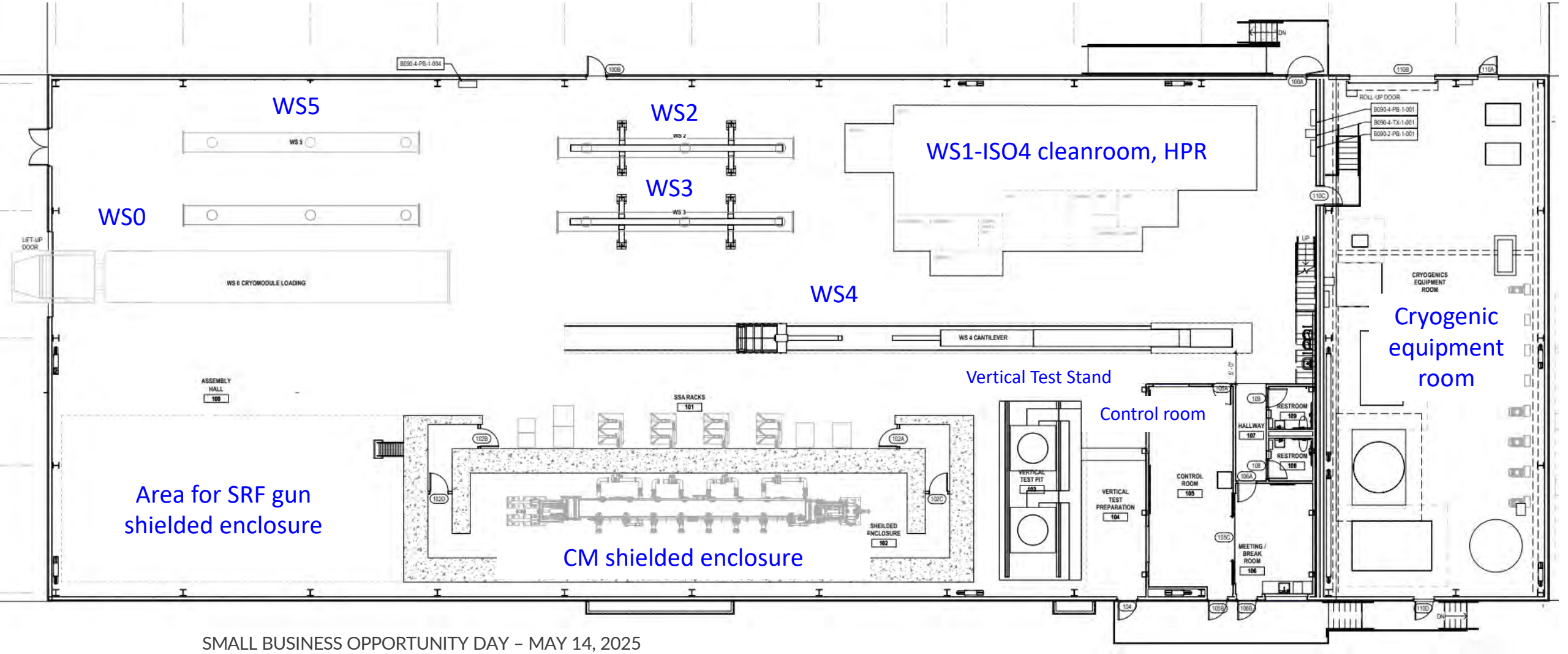
Cryogenic equipment

Isometric view of the facility



Project Scope: Buildouts for CM Repair and Testing

21,700 GSF Facility



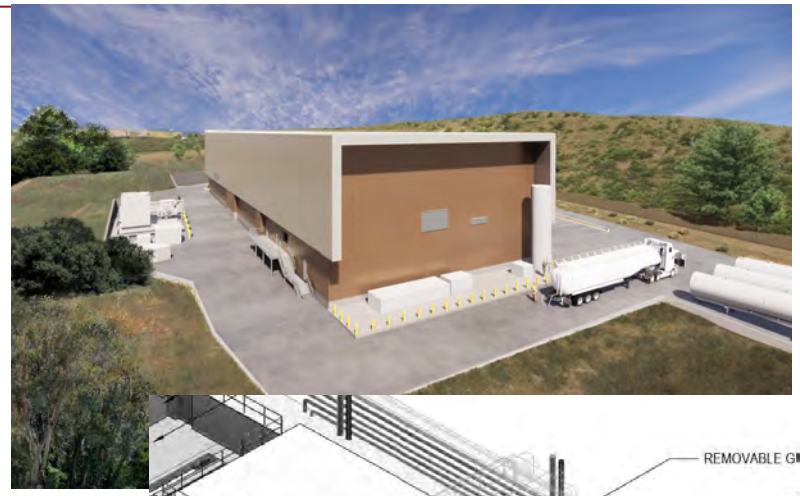
Outline

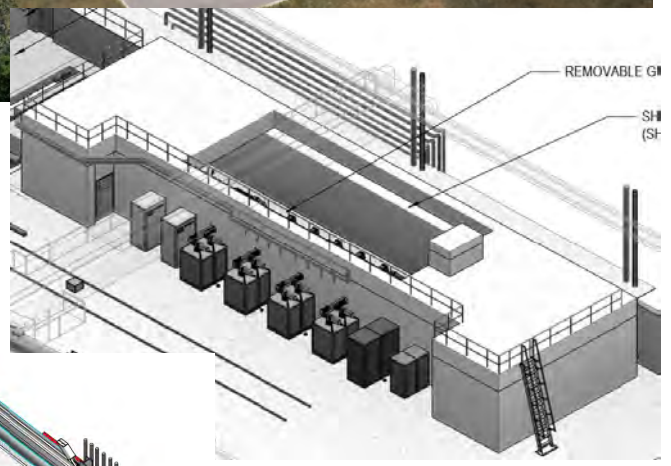
- SLAC Project Overview
- Mission of CRMF
- Project scope
- **CRMF Procurement Opportunities**

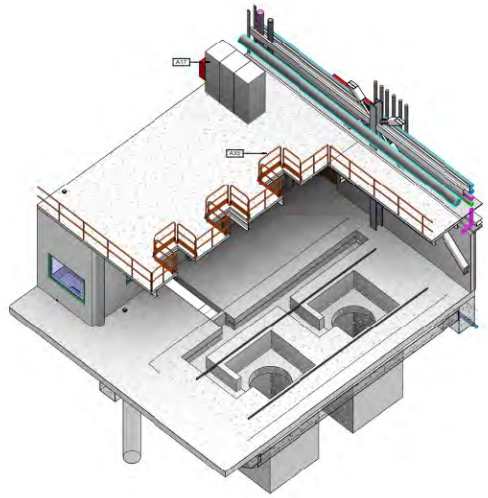
CRMF Procurement Opportunities

Conventional building construction:

- New Building construction in green field (D-B-B)
- Site improvement and utilities installation
  - Central Utility Plant (CUP) with cooling tower, electrical substation, chiller, etc
  - External concrete pad area, road, parking, etc
- Concrete shielded enclosure, concrete cast-in-place pits, control room, overhead cranes
- Timeline
  - Sam.gov Draft RFP: Dec 2024 ✓
  - CRMF Industry Day: Jan 2025 ✓
  - Detailed Design completed: May 2025 ✓
  - Planned release of RFP: **June 2025**
  - Planned GC Contract Award: Nov 2025
  - Planned completion of construction: 3Q FY27



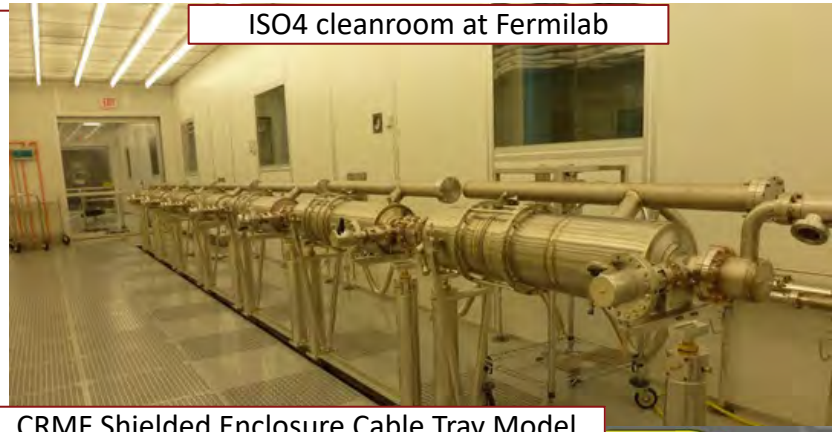


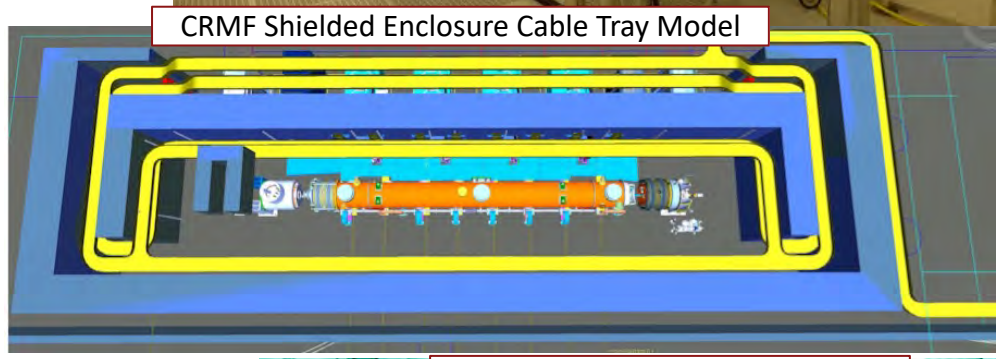


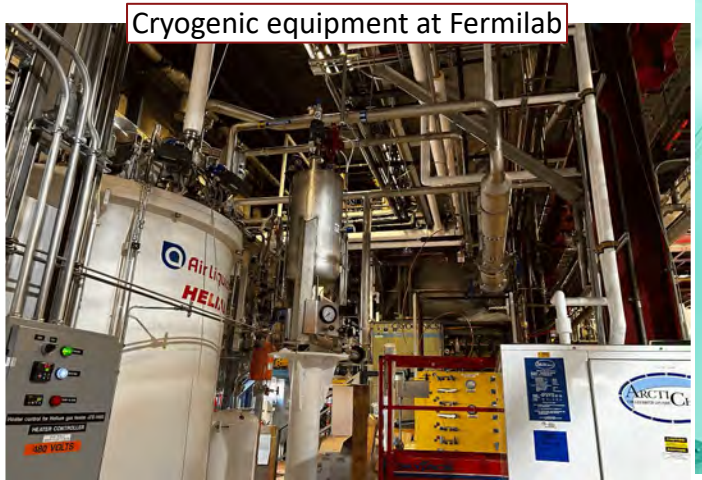
CRMF Procurement Opportunities

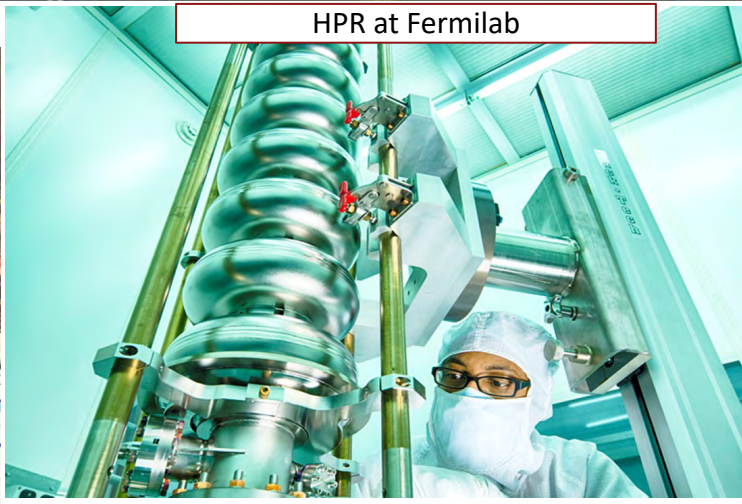
Technical systems upcoming procurements:

- ISO-4 Cleanroom (D-B)
- Ultra-pure water (UPW) system
- High-Pressure Rinsing (HPR) system
- Cryogenic equipment and piping design, procurement and installation
- Installation of cryomodule assembly tooling
- Installation of cabling and equipment for control systems
- Timeline
  - RFPs for design, manufacturing and construction will be released between Feb – Sep 2026
  - RFPs for installation will be released between Q3 2026 and Q4 2027


ISO4 cleanroom at Fermilab


CRMF Shielded Enclosure Cable Tray Model


Cryogenic equipment at Fermilab


HPR at Fermilab

Thank you

CRMF Project SLAC Procurement Website:
https://suppliers.slac.stanford.edu/find-opportunities/crmf-project-opportunity

For more info please contact:
John Azevedo, Senior Subcontract Administrator
(tigger@slac.stanford.edu)

SLAC NATIONAL ACCELERATOR LABORATORY | Stanford University | U.S. DEPARTMENT OF ENERGY

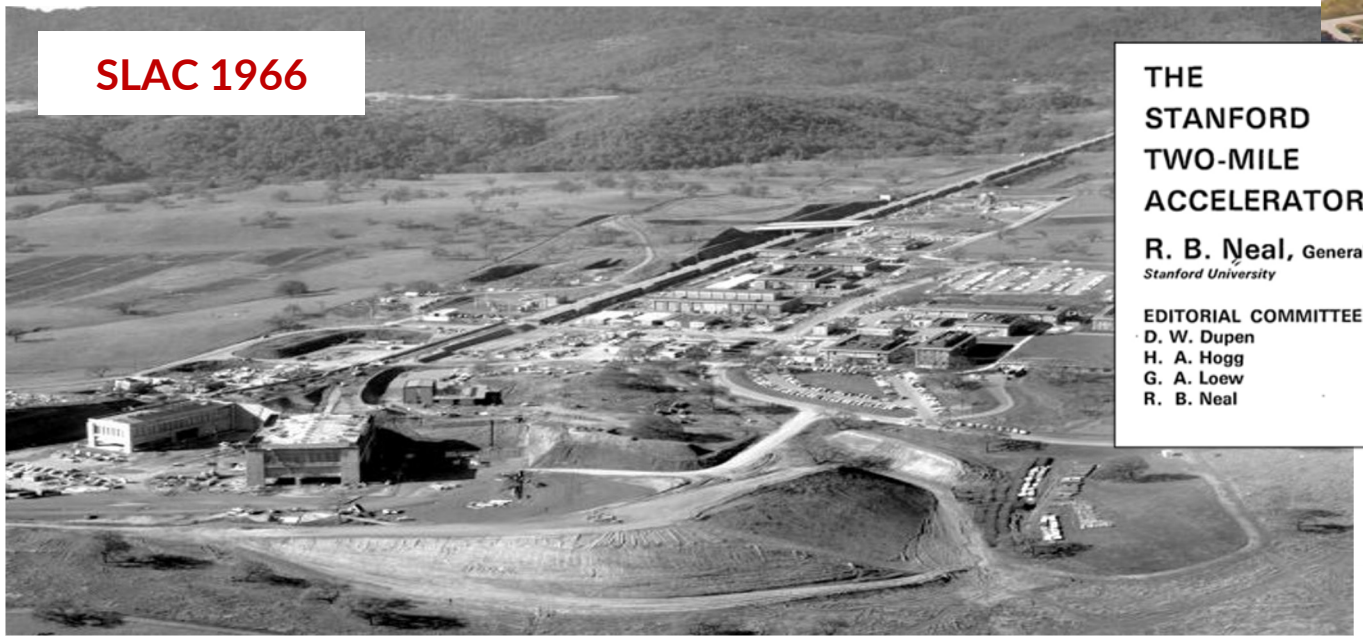
SLAC National Accelerator Laboratory
Major Projects
Critical Utilities Infrastructure Revitalization (CUIR)

Janet Kan, Project Director
Quyen Weng, Senior Subcontract Administrator (quyen@slac.stanford.edu)

SLAC National Accelerator Laboratory

Critical Utilities Infrastructure Revitalization (CUIR)

From a Single Purpose Laboratory to
a Multiple Program Facility
with Operation Commitments



THE
STANFORD
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ACCELERATOR

R. B. Neal, General Editor
Stanford University

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TODAY

LCLS-II
FACET-II
Cryo-EM
LSST
MEC

FUTURE

Adding
LCLS-II-HE
CRMF
MEC-U
And more…

Critical Utilities Infrastructure Revitalization (CUIR)

CUIR is tailored into three (3) subprojects, with minimal dependencies between each subproject.

Subproject 1 (SP1)
Critical Electrical System Improvements
Planned 2023 to 2031

Subproject 2 (SP2)
Critical Civil Utilities Replacement and Upgrades
Planned 2025 to 2032

Subproject 3 (SP3)
Critical Mechanical Utilities Upgrades
Planned 2027 to 2033

Utility improvements are grouped within a subproject to align with science needs, downtime coordination, and construction efficiency

Critical Utilities Infrastructure Revitalization (CUIR)

Subproject 1 (SP1)
Critical Electrical System Improvements
Planned 2023 to 2031

- Summer 2025 - Receive Baseline Approval
- Fall 2025 - Award two Design-Build construction subcontracts
- Winter 2025 through 2026 - Active construction & Release two Design-Bid-Build construction subcontracts

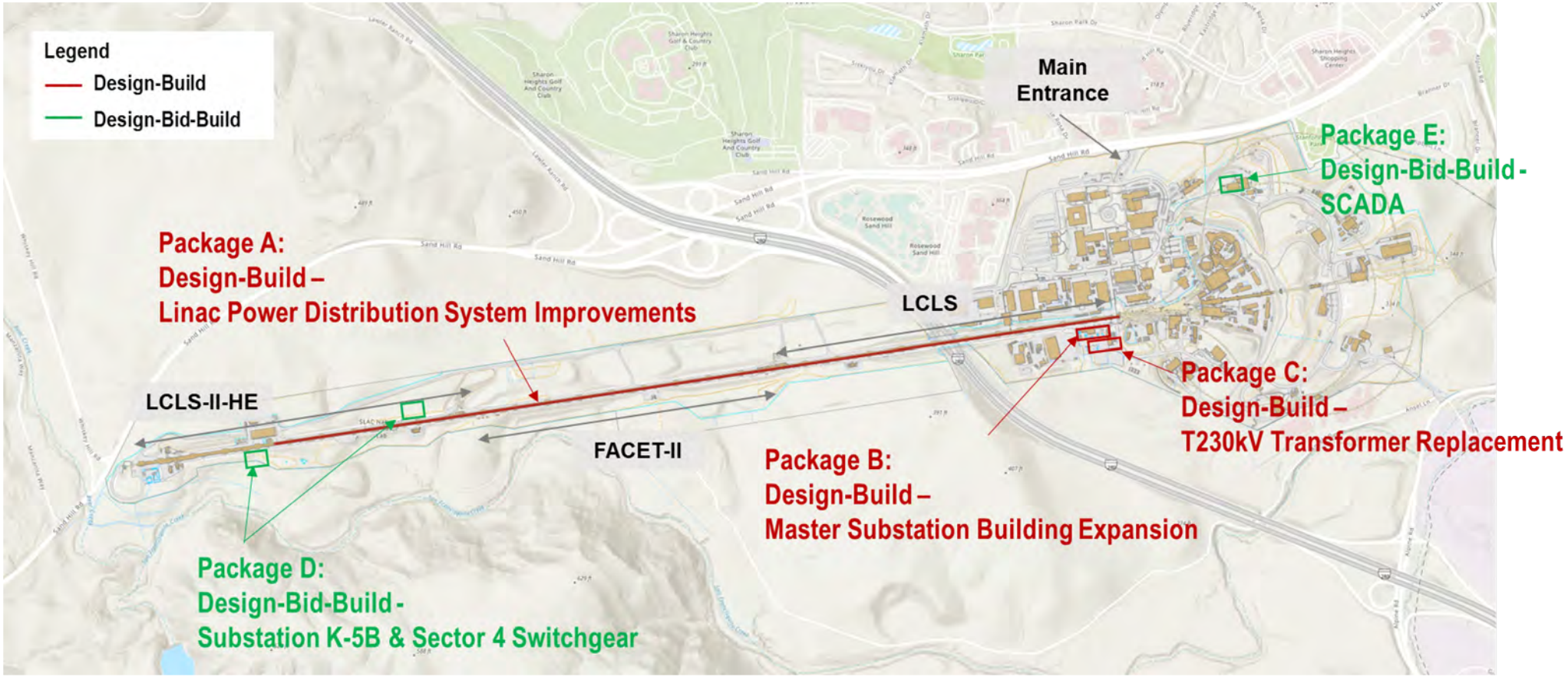
Subproject 2 (SP2)
Critical Civil Utilities Replacement and Upgrades
Planned 2025 to 2032

- Summer 2025 - Release Preliminary Engineering Design RFP
- Fall 2025 - Award PED Subcontract
- Winter 2025 through 2026 - Engineering Design

Critical Utilities Infrastructure Revitalization (CUIR)

Subproject 1 - Critical Electrical System Improvements

- Five construction packages (Packages A, B, C, D and E)
- Six long lead electrical equipment provided to contractors as Government Furnished Property (GFP)

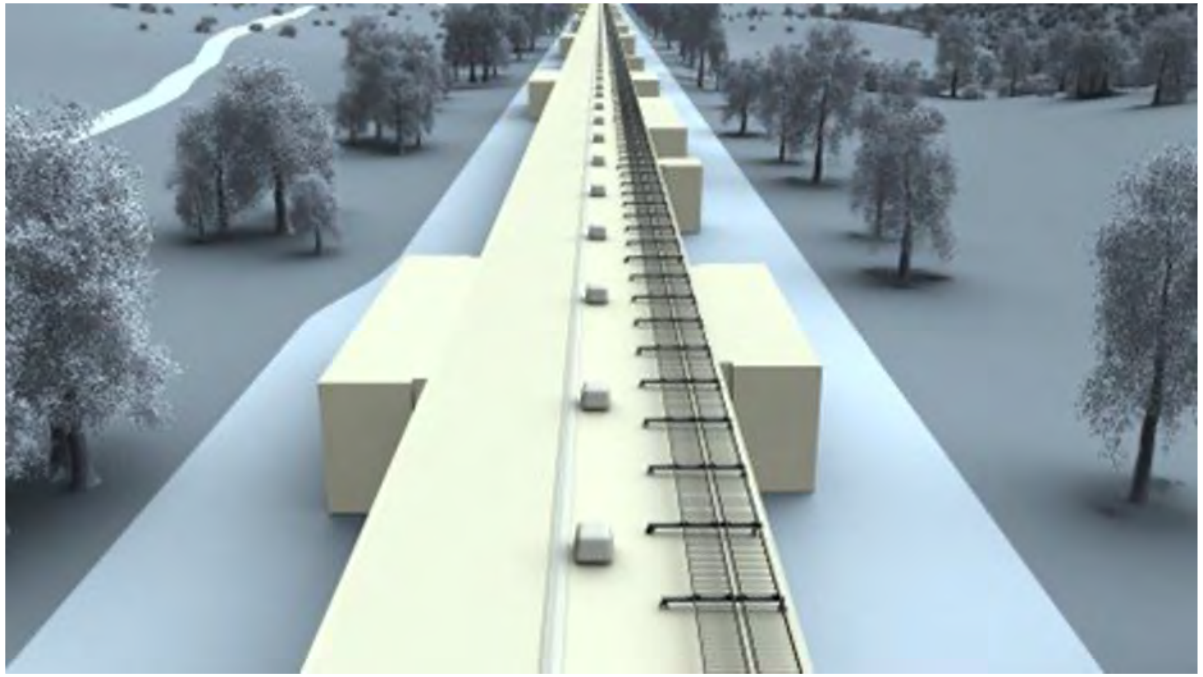


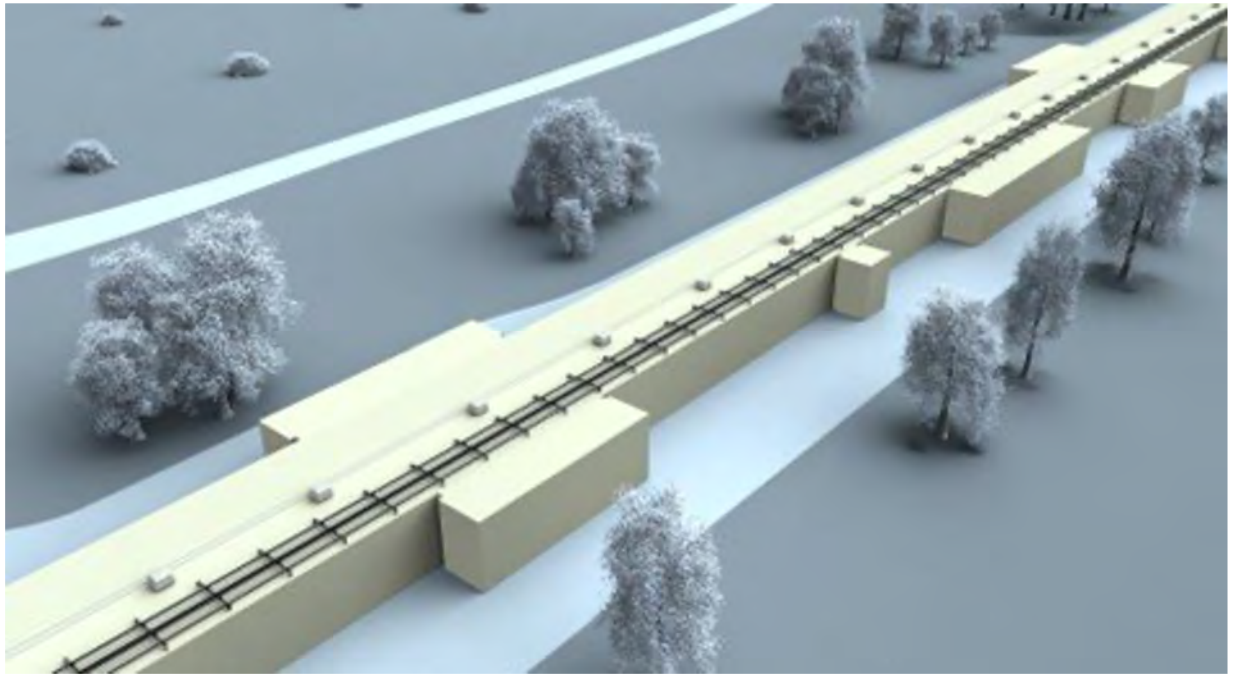
Critical Utilities Infrastructure Revitalization (CUIR)

Subproject 1 - Critical Electrical System Improvements

- Construction Package A: Linac Power Distribution System (Roof Mounted Cable Trays)
  - Planned Construction Period: Winter 2025 through Summer 2026

Active Procurement





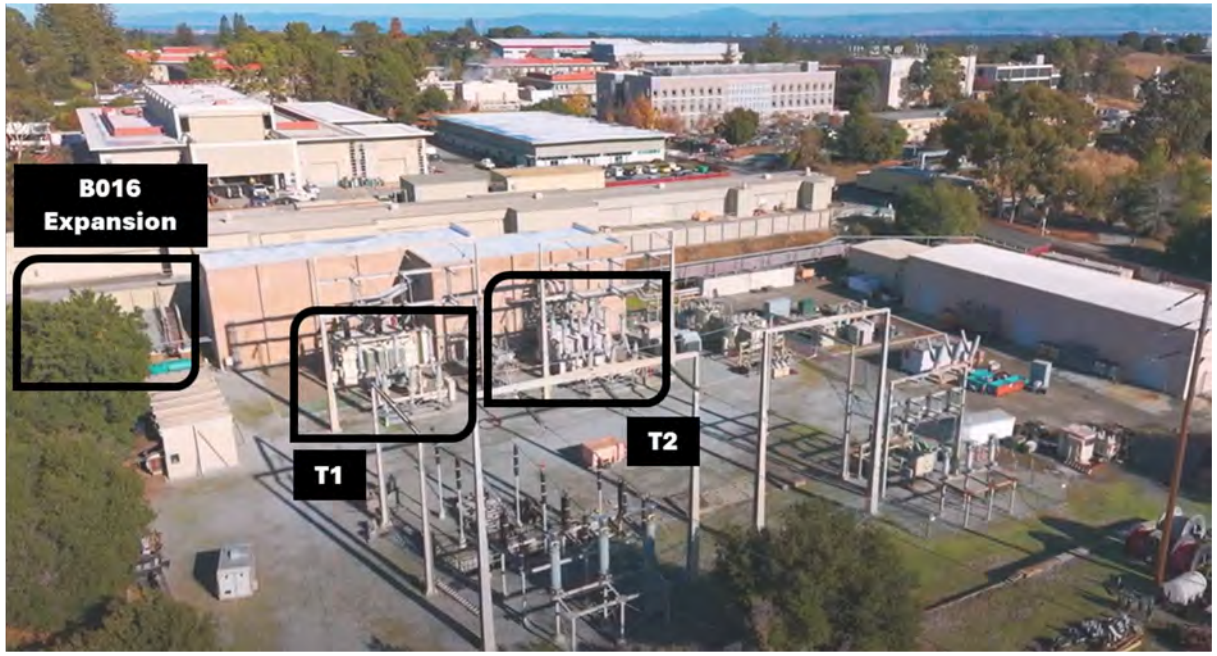
Critical Utilities Infrastructure Revitalization (CUIR)

Subproject 1 - Critical Electrical System Improvements

- Package B: Master Substation Expansion
  - Planned Construction Period: Spring 2026 through Spring 2028

Active Procurement

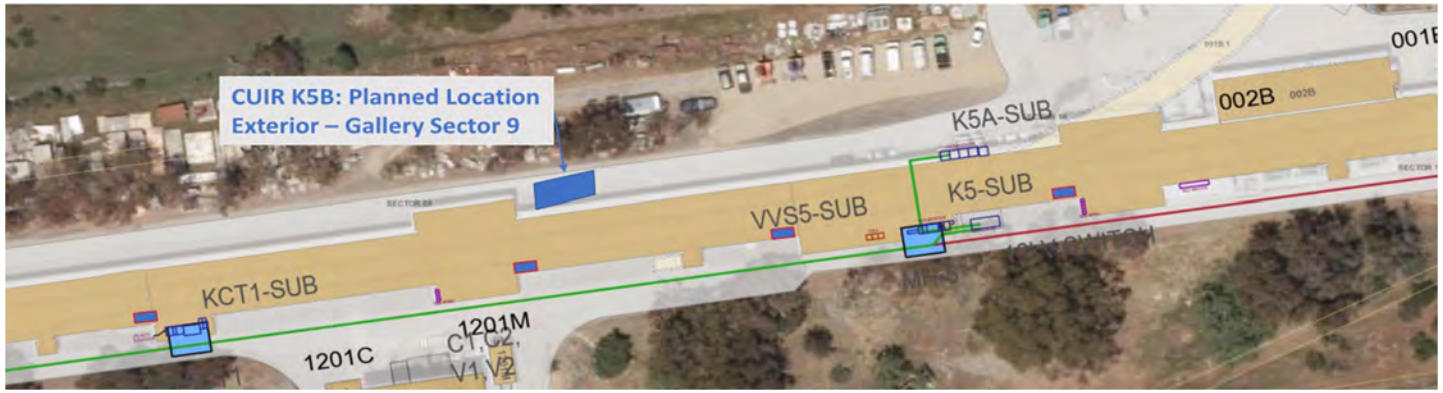
- Package C: High Voltage Transformer Replacement
  - Planned Construction Period: Winter 2027 through Winter 2030



Critical Utilities Infrastructure Revitalization (CUIR)

Subproject 1 - Critical Electrical System Improvements

- Package D: Substation K5B and S4 Switchgear Installation
  - Planned Construction Period: Summer 2026 through Summer 2027

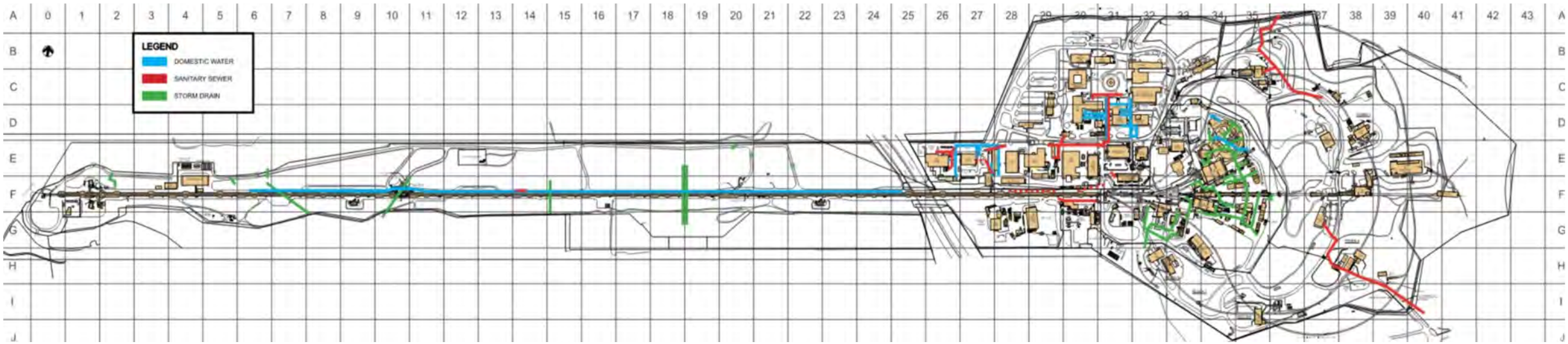


- Package E: New SCADA Hardware at IR-12
  - Planned Construction Period: Summer 2026 through Winter 2026

Critical Utilities Infrastructure Revitalization (CUIR)

Subproject 2 - Critical Civil Utilities Replacement and Upgrades

- LINAC storm drains (SD) and Domestic Water (DW)
- Research Yard Utilities, including corroded SD and DW lines
- North Campus Utilities, including sanitary sewer (SS) pipelines and DW lines
- Central Campus Utilities, including SS and DW lines



Critical Utilities Infrastructure Revitalization (CUIR)

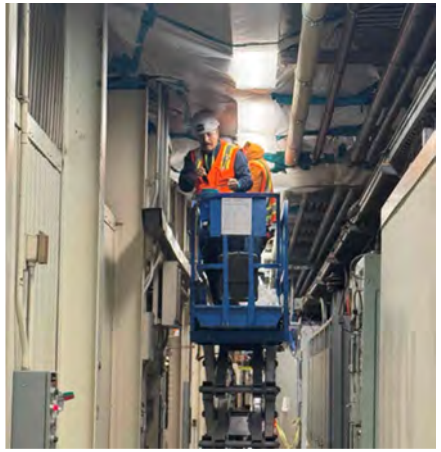
CUIR awarded over $17M of subcontracts since 2023

Type of Subcontract	No. of Awarded Subcontracts	Total Award Amt
Electrical Equipment	6	~$15M
Engineering Surveys	3	~$350k
Engineering Design	4	~$450k
Construction	3	~$1.2M
TOTAL	**16**	**~$17M**

Achievements

Timely procurement and arrival of medium voltage cables

Achievements



Installation of roof mounted cable tray mock ups

Critical Utilities Infrastructure Revitalization (CUIR)

Upcoming CUIR Project Opportunities

Type of Subcontract	Opportunity Name	Planned RFP Release
A/E Design	Subproject 2 – Civil Utilities Preliminary Engineering Design	Summer 2025
Engineering Surveys	Subproject 2 – Topographic and utility surveys, geotechnical exploration, hazardous materials surveys	Fall/Winter 2025
Construction	Subproject 1 – Package E: Substation IR12 SCADA Hardware Installation	Fall/Winter 2025
Construction	Subproject 1 – Package D: Substation K5B and S4 Switchgear Construction	Fall 2025


Thank
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SLAC National Accelerator Laboratory
Facilities and Operations

Shane Wells, Facilities and Operations Deputy Associate Laboratory Director
AJ Vandermeyden, Procurement Team Lead (amiravan@slac.stanford.edu)

SLAC National Accelerator Laboratory

Facilities & Operations (F&O)

Manages facilities and infrastructure of SLAC Campus

- Spans 426 acres and includes approximately 2.4 million gross square feet of space

Engineering: Provides design services for conventional infrastructure projects, provides technical requirements and oversight for Design and Construction Services projects, and provides subject matter expertise to the Lab to ensure appropriate system selection and resiliency to fully support the Laboratory's mission

Facilities Management and Planning (FMP): Asset management, Requirements planning, Maintenance reports, Building management services, Space management, Logistics planning, Contract documentation, Process improvements, Facilities CMMS support, and Davis-Bacon Act compliance support

Operations: Ensures that essential infrastructure remains operational and mission ready by focusing on: Preventative and predictive maintenance, Responding to service calls, Repair and maintenance project deliveries, System monitoring and control room services, Dispatch and maintenance of Vehicle fleet & Industrial equipment fleet

Sustainability: Promote efficient laboratory operations, and consumption of energy/water utilities. Sustain scientific progress while conserving natural resources, reduce environmental impact, and increase resilience. Collaborate closely with each facilities organization and environmental protection groups.

Facilities & Operations (F&O)

Upcoming Contract Needs

Engineering	A/E services to supplement the organization during peak project demands, including arc flash analysis and technical studies
Facilities Management and Planning (FMP)	Integrated Service Provider contracting facility support services (Janitorial, Landscaping, Pest Control, etc.)
Operations	Mechanical Electrical and Plumbing Repair/Replacement Contracts Fuel Tank and Oil Separator Maintenance Contract Maintenance, Repair and Operational parts purchasing
Sustainability	Maintenance contract for EV chargers site-wide Maintenance contract for commercial rooftop PV systems

SLAC National Accelerator Laboratory
Minor Projects

Lauren Thompson, Interim Director, Design & Construction Services
AJ Vandermeyden, Procurement Team Lead (amiravan@slac.stanford.edu)

SLAC National Accelerator Laboratory

Minor Projects: Now Through the End of FY25

Project Name	Type	TPC	PM
60kV Breaker B-03 Replacement at the Master Substation	Electrical, Civil	<$1M	Chethana Gowda
B040A Metrology Lab	MEP, Structural, Controls	<$1M	Robin Turkmen
FY25 Civil-Road-Parking Lot Maintenance	Civil	<$1M	Kai Shibley
B040 - B084 Rear Loading Dock Accessibility Upgrades	Electrical, Civil, Structural	<$1M	Chethana Gowda
B044 East Roof Replacement	Roofing	$1-10M	Kyle Ko
Klystron Gallery Power Distribution	Electrical and Civil	$1-10M	Kevin McCarthy
B057 Chase Expansion	Mechanical, Structural, Electrical	$1-10M	Kyle Ko
Sub515 Upgrade	Electrical, Civil, Structural	$1-10M	Lori Shewchuk
Alpine Gate Replacement	Electrical, Structural, Controls, Civil	$1-10M	Abby Cai

Minor Projects: Now Through the End of FY25

Project Name	Type	TPC	PM
HX4 Piping Connection to LCW 1801	Mechanical/Controls/Electrical	$1-10M	Kai Shibley
B750 Elevator Modernization	Mechanical/Controls/Electrical	$1-10M	Chethana Gowda
Site Security & Access Improvements – Main Gate	MEP, Civil, Controls	$1-10M	Abby Cai
SLAC - Reactive Power Compensation	Demolition/Electrical/Civil	$1-10M	Lori Shewchuk
SSRL 10S Alcove Shielding Replacement	Civil/Structural	$1-10M	Celine Wang
Sector 11 Site Utilities	Civil/Electrical	$1-10M	Kevin McCarthy
Substation 25S Replacement and MV Switch 4	Electrical/Civil/Structrual	$1-10M	Robin Turkmen

Minor Projects: FY26 and Beyond (<$1M)

Project Name	Type	TPC	PM
Replace High Intensity Discharge Lighting at SLAC	Electrical	<$1M	Tiffany Tate
Air Compressor ZT 315 Building	Mechanical	<$1M	Abby Cai
HEDS S10 Trailer Project	Electrical/Civil	<$1M	Robin Turkmen
B057 ESD Shared Characterization, Elect Upgrades, Argon Dewar and ODM	Multi Discipline	<$1M	Robin Turkmen
B057 Modifications – Dock Leveler and Dock Reconfiguration	Civil/Electrical	<$1M	Nikki Fujii
ABA Accessibility Upgrades at B048 - B051	Civil/Utilities	<$1M	Chethana Gowda
60kV Breaker 3 (B-03) Replacement at the Master Substation	Electrical/Civil	<$1M	Chethana Gowda
B950 Accessibility Upgrades	Civil/ Mechanical	<$1M	Tiffany Tate
Lift Station 115 Replacement	Civil/ Mechanical	<$1M	Chethana Gowda
Replace Building 120 Basement AHU	Mechanical	<$1M	Celine Wang

Minor Projects: FY26 and Beyond ($1-10M)

Project Name	Type	TPC	PM
B025 Chilled and Hot Water Distro Piping	Mechanical, Plumbing	$1-10M	Chethana Gowda
Renovate B750 Elevators	Mechanical, Controls, Electrical	$1-10M	Chethana Gowda
Replacement of 050S 12kV Switchgear	Electrical, Civil	$1-10M	Chethana Gowda
Substation 756S Modification	Electrical, Civil	$1-10M	Lori Shewchuk
B051 Roof Replacement	Roofing	$1-10M	Kyle Ko
B040 Roof Replacement	Roofing	$1-10M	Kyle Ko
Sitewide Non-Rad D&D (GPP Development)	Demo	$1-10M	Celine Wang
1801 LCW Pump Project	MEP, Civil, Controls	$1-10M	Robin Turkmen
Replace LV sections and MCCs	Electrical	$1-10M	Lori Shewchuk

Minor Projects: FY26 and Beyond ($1-10M), ctd.

Project Name	Type	TPC	PM
B950 Elevator Installation	Mechanical, Controls, Electrical	$1-10M	Chethana Gowda
Replace VVS, MV Sections, Transformer, LV Main & Distribution Section	Electrical	$1-10M	Lori Shewchuk
Culvert Repair and Maintenance	Civil	$1-10M	Tiffany Tate
B730 Elevator Modernization	Mechanical, Controls, Electrical	$1-10M	Chethana Gowda
Facility D&D - 005A, 005B, 005C, and 005D	Demo	$1-10M	Kyle Ko
B33 HVAC Repairs	Mechanical	$1-10M	Celine Wang
B33 Motor Center Control (MCC) Replacement	Electrical	$1-10M	Celine Wang
Building 480 Repairs	Structural, Civil, Electrical	$1-10M	Chethana Gowda

Minor Projects: FY26 and Beyond ($1-10M), ctd.

Project Name	Type	TPC	PM
Building 480 Repairs	Structural, Civil, Electrical	$1-10M	Chethana Gowda
009-TNL New Fire System Upgrades for Multi-Program Beam Switch Yard (BSY)	Electrical, Controls	$1-10M	Kai Shibley
Electrical Rehabilitation - VVS Upgrades	Electrical	$1-10M	Lori Shewchuk
Bathroom Addition at Cryoplant B905	New Temporary Structure	$1-10M	Zebib Teklyes
Repair Underground Domestic Water Leak near SSRL B120 and B140	Civil, Utility	$1-10M	Zebib Teklyes
Trailer Demolition Project 202, 239, 481, 627, and 764	Demo	$1-10M	Celine Wang
East Side Utilities Infrastructure	Multi Discipline	$1-10M	Kevin McCarthy

Minor Projects: FY26 and Beyond ($>10M)

Project Name	Type	TPC	PM
Cooling Tower 1701 Upgrades Phase II	Multi Discipline	$10-34M	Abby Cai
Electrical Rehabilitation - Replace 12kV Cables at IR2, 522S, IR4 and IR12	Controls, Electrical, Civil	$10-34M	Chethana Gowda
Far Experimental Hall Reconfiguration	MEP, Civil, Architectural, Structural, Controls	$10-34M	Abby Cai
Site Compressed Air Redundancy Improvements	Mechanical, Electrical, Structural	$10-34M	Zebib Teklyes
Retrofit and Modernize Computation Center (Building 50) Telecommunications Infrastructure	Multi Discipline, New Building	$50M+	Lori Shewchuk

Questions?

May 14, 2025

Break

15 minutes

Opportunities with Lawrence Livermore National Laboratory

John Benjamin, Small Business Program Manager
Jordan Clark, Business Analyst

Doing Business With Lawrence Livermore National Laboratory

May 14th, 2025

Jordan Clark
Small Business Program Office

Prepared by LLNL under Contract DE-AC52-07NA27344.

Agenda

- About LLNL
- Tips for Working with LLNL
- Learn About Upcoming Opportunities

High Explosive Application Facility

About LLNL

- One of the largest DOE National Laboratories
- $3.3B operating budget – FY24
- 9500+ employees
- $1.1B in procurement spend – FY24
- 500+ facilities between 2 sites

What We Buy

Think of Lawrence Livermore National Laboratory as a small city.

We procure goods and services in support of our:

- Property
- Programs
- People

FY24 Small Business Spend Profile

Category	NAICS Code	% of Small Business Spend
Construction *18% of total small business spend*	236220 *Commercial and Institutional Building Construction*	16.7%
	237990 *Other Heavy and Civil Engineering Construction*	1%
Electronics *11% of total small business spend*	334111 *Electronic Computer Manufacturing*	6.7%
	334118 *Computer Terminal and Other Computer Peripheral Equipment Manufacturing*	2.9%
	334112 *Computer Storage Device Manufacturing*	1.4%
Research *5.6% of total small business spend*	541715 *Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)*	2.3%
	334516 *Analytical Laboratory Instrument Manufacturing*	2.2%
	334515 *Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals*	1.1%

Tips for Working with LLNL

Market Survey: Looking for Sources

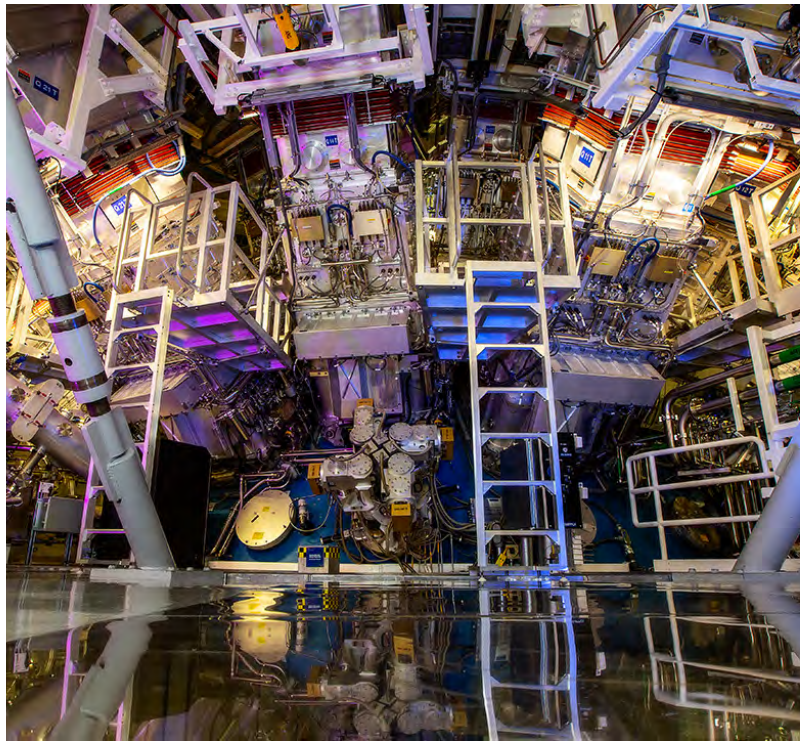
- Get on the Prospective Supplier List (vendor.llnl.gov)
- Sources Sought/RFI in SAM and Industry Days
- Small Business Program Office

Solicitation: Inviting Sources to Participate

- Understand the Requirements. Unsure? Ask!
- Read All Documents Carefully
- Provide Requested Items

Post Award: Performance

- Understand the Terms of the Subcontract
- Provide Submittals on Time or Early
- Perform well, on time, and on budget



National Ignition Facility (NIF) Target Chamber

Make it easy for LLNL to business with you!

Learn About Upcoming Opportunities

LLNL Contracting Opportunities:

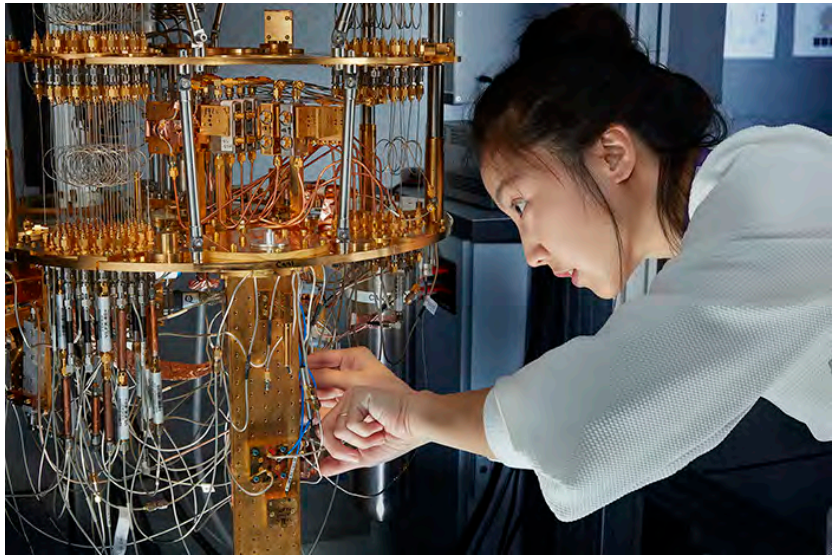
- Sources Sought notices are posted on SAM.gov
- Sign up as a prospective supplier: vendor.llnl.gov

LLNL Construction:

- Construction Opportunities Page: https://procurement.llnl.gov/opportunities
- Pre-qualification: contact Jon/Jordan with your Capabilities Statement

LLNL Small Business Office

- Jon Benjamin/Jordan Clark: smallbusiness@llnl.gov



LLNL Quantum Computing

Contact Us

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Small Business Program Manager

Jordan Clark
Business Analyst, Small Business Program Office

Lawrence Livermore National Laboratory

smallbusiness@llnl.gov

www.llnl.gov

Opportunities with Pacific Northwest National Laboratory

Talia Ochoa, Small Business Program Manager

Pacific Northwest
NATIONAL LABORATORY

Doing Business with PNNL

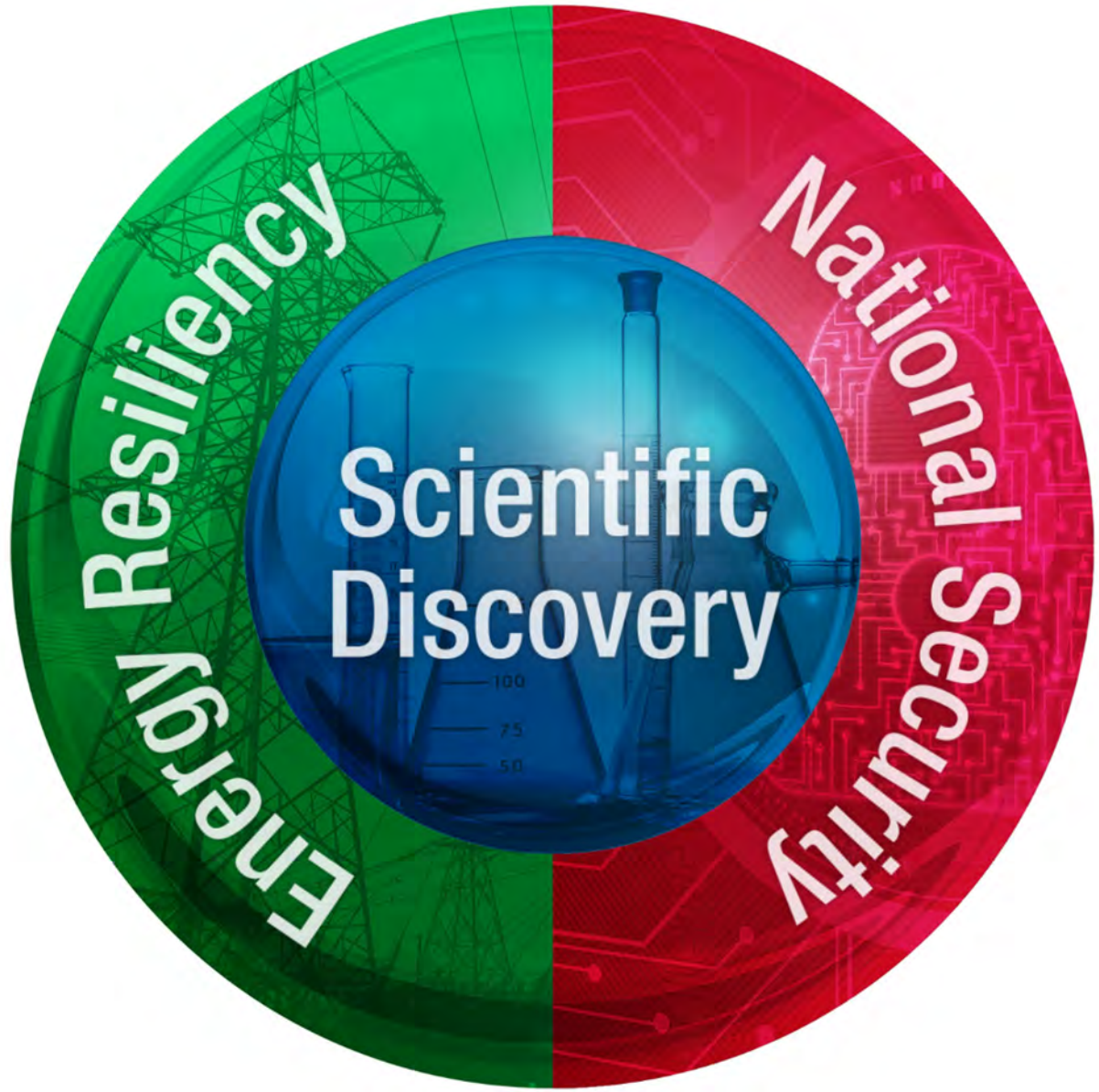
Talia Ochoa
Small Business Program Manager

Pacific Northwest
NATIONAL LABORATORY

We are one of DOE's 17 **national laboratories** addressing critical scientific challenges

Pacific Northwest
NATIONAL LABORATORY

We **advance scientific frontiers** and **provide solutions** to critical national needs



Pacific Northwest NATIONAL LABORATORY

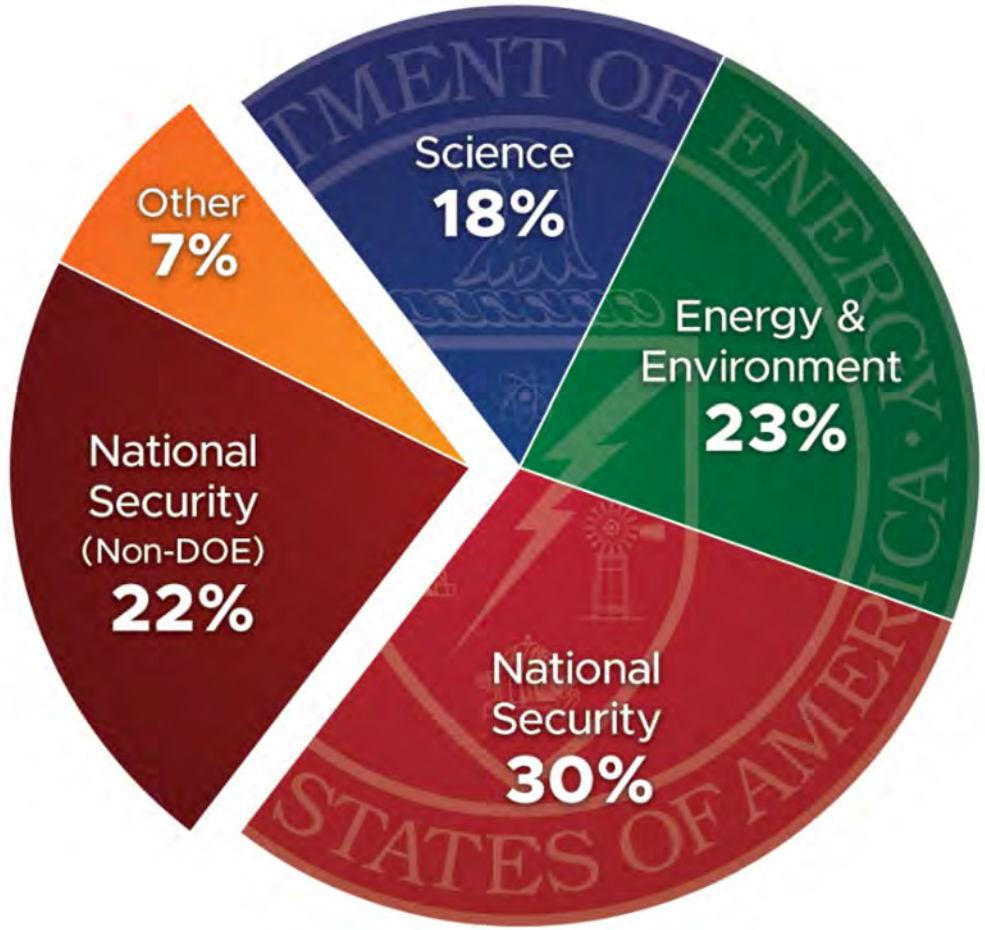
We are **one of DOE's most diversified** national laboratories

$1.64B **Annual Spending** (Business Volume)

6,437 **Staff** 2,779 w/ advanced degrees

1,672 **Peer-Reviewed Publications**

319 **Invention Disclosures**



FY 2024 Business Volume

SLAC

Pacific Northwest
NATIONAL LABORATORY

We transition our technologies to industry

Fiscal Year 2024:

73 U.S. & International **PATENTS**
3,213 since 1965

11 **LICENSES & OPTIONS**
805 since 2000

ONE **INVENTION**
nearly every day

~1.2 **PATENTS**
received per week

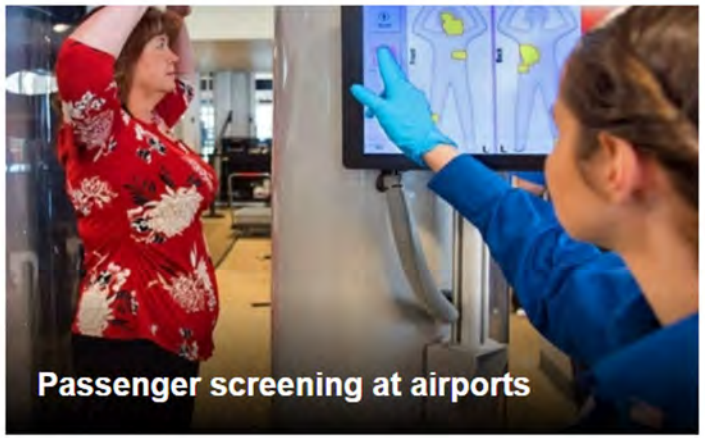
211 **ACTIVE BUSINESSES**
with PNNL roots since 1965

SLAC

Pacific Northwest NATIONAL LABORATORY

Our inventions impact U.S. markets

Technologies converted to real-world products and solutions



SLAC

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; $451M in FY24
- P-Card – low dollar goods (< $10K) and services (<$2,500); $29M FY24
- B2B – Commercial Off-The-Shelf goods (<$35,000) via eCommerce; $18M in FY24

PNNL supports DOE's small business objectives

- Exceeded all goals in FY24
- Goal for FY25 include:
    - Small Business – 49%
    - SDB – 5%
    - WOB – 5%
    - HUBZone – 3%
    - VO – 5%
    - SDVO – 5%

FY24 Total	Totals $	Totals %	Goal %
Large	138,866,815	41.30%	
Small	$197,624,043	58.70%	49%
Total	$336,590,859		
SDB	$32,441,460	9.60%	8.15%
WOB	$22,817,615	6.80%	5.00%
HUBZ	$11,145,650	3.30%	3.00%
VO	$34,965,944	10.40%	5.00%
SDV	$26,248,511	7.80%	5.00%

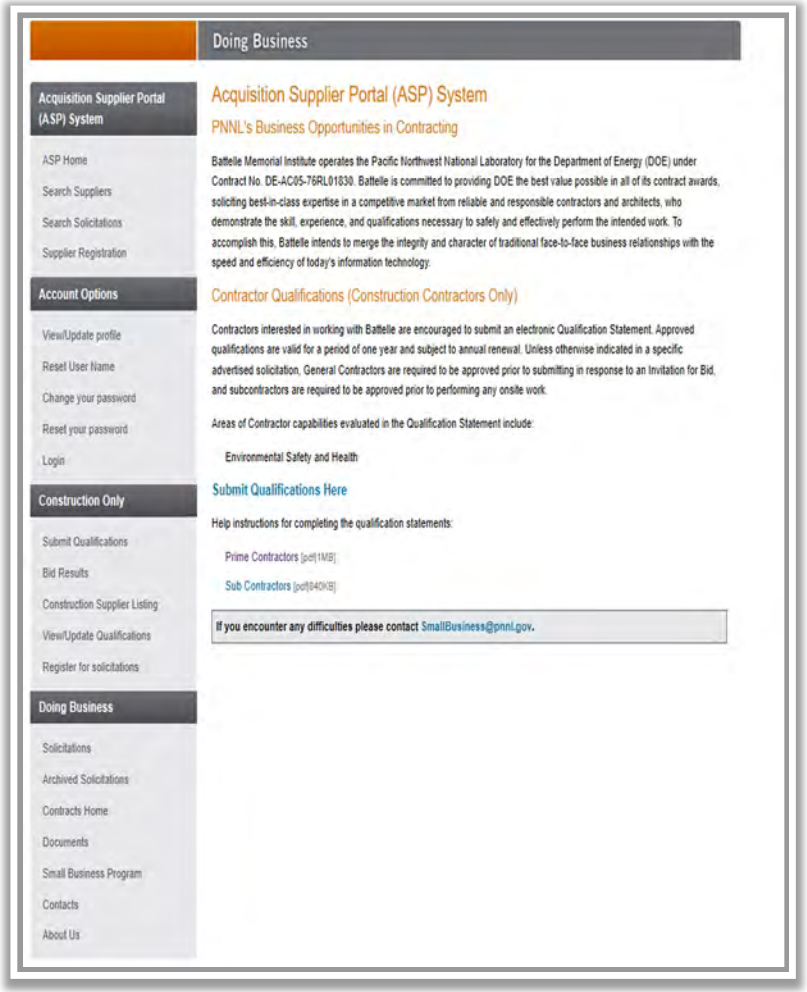
Pacific Northwest
NATIONAL LABORATORY

FY24 Top NAICS Codes

Pacific Northwest
NATIONAL LABORATORY

Tips for working with PNNL

- Prior to Award/doing work with PNNL, you should:
  - Take a few minutes to learn about PNNL and how you can help its mission
  - Become familiar with Battelle's Prime Contract with the 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)
  - 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
  - Review past "Doing Business with PNNL" webinars on website



Pacific Northwest NATIONAL LABORATORY

Current & Forecast Opportunities

- Solicitation/Request for Proposal

  Competitive solicitations posted externally >$250K

Solicitation Number	Title	Location	Issue Date	Due Date	Solicitation Type
0000891744	Environmental Test Chambers	Richland, WA	4/25/2025	05/02/2025	Goods & Services
0000880791	3020 EMSL Lab 1222 Modifications	Richland, WA	4/14/2025	05/06/2025	Construction
0000887631	3220 HVAC-HP-001 Replacement	Richland, WA	4/24/2025	05/15/2025	Construction
0000892145	Platinum, Rhodium, Gold Crucible Fabrication	Richland, WA	5/1/2025	05/15/2025	Goods
0000888523	325RPL PU Trit Processing Lab Upgrade Construction	Richland, WA	4/29/2025	06/03/2025	Construction

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Current & Forecast **Opportunities (Richland, FFP)**

NAICS Code	Type of Acquisition	Acquisition Description	Place of Performance	Anticipated Award Fiscal Year	Contract Type	Estimated Dollar Range
562920	Services	Recycling services for PNNL	Richland, WA	FY25	FFP	$85,000.00
532420	Services	Lease copiers for buildings at PNNL	Richland, WA	FY25	FFP	$500,000.00
334511	Goods	Water Vapor Lidar and Aerosol Lidar (Either combined or separate instruments	Richland, WA	FY25	FFP	$1M; varies depends
334516	Goods and Services	Scanning Electron Microscope	Richland, WA	FY25Q2	FFP	$1M
334516	Goods	TV1 Area Chambers	Richland, WA	FY25Q2	FFP	$500K
334515	Goods	Battery Cyclers	Richland, WA	FY25Q2	FFP	$750K
334111	Goods	Data Computing Platform	Richland, WA	FYQ4	FFP	$500K
334519	Goods/Services	Environmental Chambers	Richland, WA	FY25Q2	FFP	$3M
334516	Goods/Services	EUV Spectrograph and Ion Analyzer	Richland, WA	FY25Q2	FFP	$200K
	Goods/services	Laser System	Richland, WA	FY25Q2	FFP	$1M
236220	Construction	Potable Water Distribution/Water Sewer	Sequim, WA	FY25	FFP	TBD
236220	Construction	Design/Build SISEL Building	Richland, WA	FY25 Q3	FFP	TBD
236220	Construction	325RPL Pu-Metal Glovebox Lab, Pu-Tritium Processing Lab	Richland, WA	FY25 Q3/4	FFP	TBD
236220	Construction	325RPL Lab 55&56 Upgrades	Richland, WA	FY25 Q3/4	FFP	TBD
236220	Construction	Microbial Molecular Phenotyping Capability (M2PC) Facility Design/Build	Richland, WA	FY 26 Q1	FFP	TBD
236220	Construction	Richland Campus minor construction - 13 projects e.g. New construction, major facility upgrades, repurposing of existing facilities, and lab conversions	Richland, WA	FY24-26	FFP	Varies individually
236220	Construction	Richland campus planned major maintenance	Richland, WA	FY24-25	FFP	Varies individually
236220	Construction	National Security Complex (5 Buildings)	Richland, WA	FY24-FY33	FFP	Varies individually

Pacific Northwest NATIONAL LABORATORY

https://www.youtube.com/watch?v=FOobmdaR70s

Take a Tour of **PNNL**

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Small Business Program resources and contacts

- PNNL Acquisition Supplier Portal
- Solicitation Website
- For more information about PNNL Small Business Program and its Small Business Program goals, please visit the Small Business Program Website
- Contact PNNL's Small Business Program Manager @ small.business@pnnl.gov
- PNNL participates in the Mentor Protégé program, reach out to express interest and get more info!

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Opportunities with Sandia National Laboratories

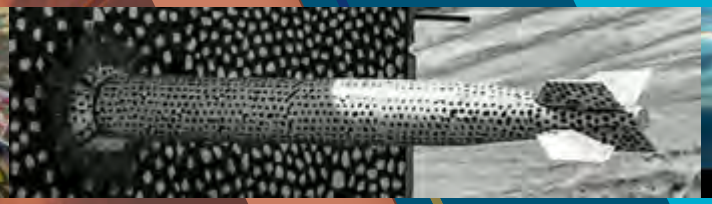
Zach Mikelson, Small Business Program Manager

Sandia National Laboratories

Exceptional service in the national interest








SANDIA IS A FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTER MANAGED AND OPERATED BY

National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc.

Government-owned, contractor-operated

FFRDCs are long-term strategic partners to the federal government, operating in the public interest with objectivity and independence and maintaining core competencies in missions of national significance

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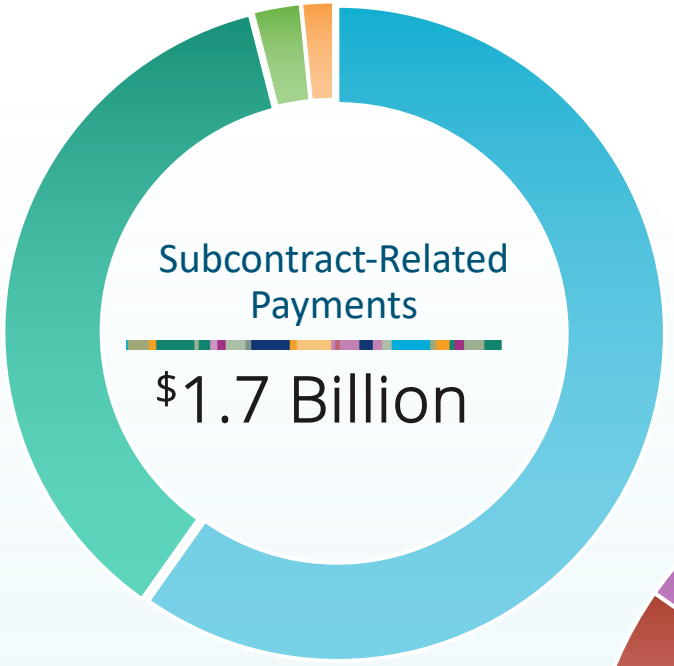
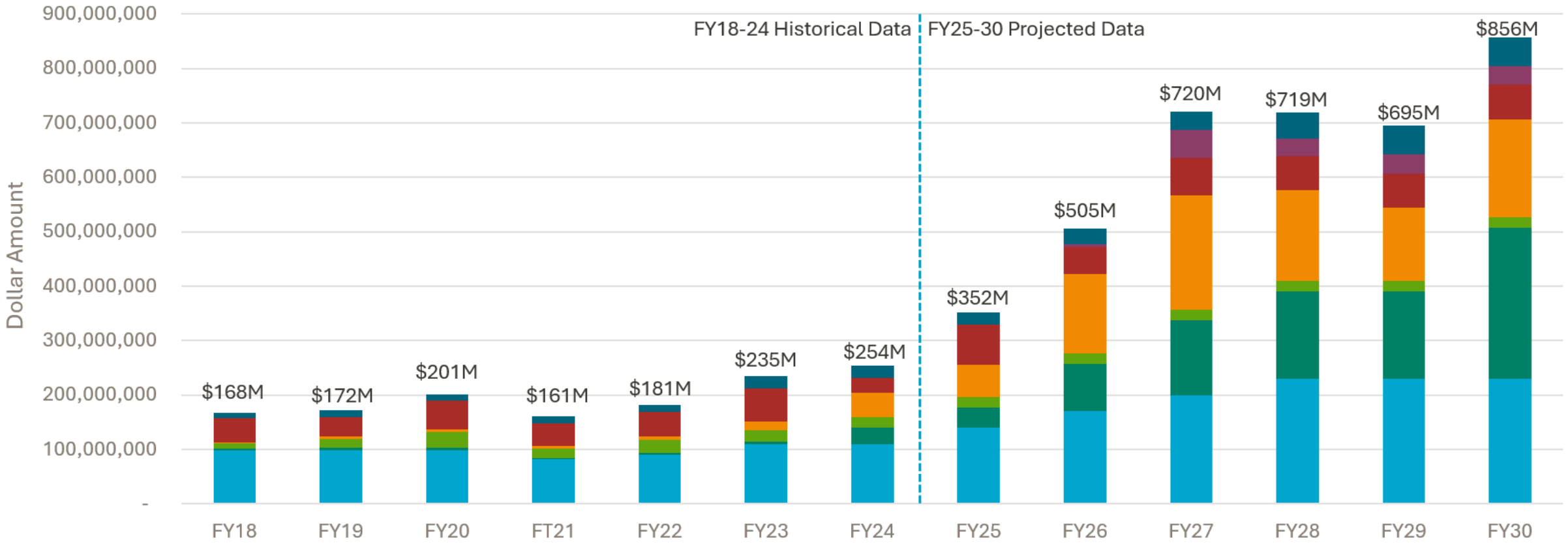
SANDIA'S FY24 ECONOMIC IMPACT



Historical and Projected Facilities & Infrastructure Work



New Mexico Projects

The projects below range in size from a $100M - $Bs in Total Project Costs.

1. **Power Sources (PSC) Capability -** Replaces a deteriorating 1940's era building.
   Current Status: Seeking approvals; construction to begin in FY25

2. **Combined Radiation Environments for Survivability Testing (CREST)** - Replaces a 1970's era research reactor.
   Current Status: Seeking approvals; preliminary and final design to begin in FY26 or FY27.

3. **Next Generation Pulsed Power (NGPP) Facility** - replaces the current aging facility.
   Current Status: Seeking approval for mission need; timeframe TBD

4. **Microelectronic Components Capability (MC2) -** will provide state-of-the-art cleanroom space
   Current Status: Seeking NNSA CD-0 approval for mission need; timeframe TBD

California Projects

FY25

1. Western Campus Utility Expansion - $28M+
2. New Lab Building - $26M+
3. Substations 41-44 Replacement - $8M+
4. C929 Air Handling Unit Replacements - $8M+
5. WEST Site Prep - $4M+

FY26+

1. New Lab Building - $28m+
2. New WEST Campus Buildings - $100M+
3. Medium Voltage Site Upgrades – TBD
4. Sitewide Seismic Upgrades – TBD
5. Utility & Building System Sustainment - TBD

Mandatory Requirement Examples

- Adequate bonding capacity to meet total construction values (in some cases >$200M)
- Excellent safety metrics
- Zero willful or repeat OSHA Violations
- Environmental Safety & Health program that meets Title 29 Labor Part 1926 (Safety and Health Regulations for Construction)
- Related experience where supplier was the prime contractor
- Current and valid state issued contractors license for general building construction in the appropriate states (i.e. New Mexico and/or California)
- Capability to effectively manage large, complex construction projects to Sandia's requirements
- United States citizens requirements
- NQA-1 and/or DOE Order 414.1D compliant Quality Assurance Programs

How to work with Sandia

- Create company account in iSupplier
- Subscribe to the Business Opportunities Website
- Know what Sandia buys
- Attend Outreach Events

iSupplier & Business Opportunities Website

iSupplier Registration:

Business Opportunities Website:

What Does Sandia Buy?

Top 10 NAICS Codes:

- **334516 -** Analytical Laboratory Instrument Manufacturing
- **236220 -** Commercial and Institutional Building Construction
- **541511 -** Custom Computer Programming Services
- **334111 -** Electronic Computer Manufacturing
- **541330 -** Engineering Services
- **561210 -** Facilities Support Services
- **332710 -** Machine Shops
- **541519 -** Other Computer Related Services
- **334419 -** Other Electronic Component Manufacturing
- **541715 -** Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)

Outreach

Request a 30 Minute, 1:1 Engagement Meeting

Virtual or In-Person

supplier@sandia.gov


QUESTION
ANSWER

Morning Wrap Up

Nicole Colley, Operations Strategy Manager


Thank you!