

Department of Homeland Security

Science and Technology Directorate

Budget Overview



Fiscal Year 2026

Congressional Justification

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Science and Technology Directorate

Appropriation Organization Structure

	Level	Fund Type (* Includes Defense Funding)
Science and Technology Directorate	Component	
Operations and Support	Appropriation	
Mission Support	PPA	Discretionary - Appropriation
Laboratory Facilities	PPA	Discretionary - Appropriation
Acquisition and Operations Analysis	PPA	Discretionary - Appropriation
Procurement, Construction, and Improvements	Appropriation	
Construction and Facility Improvements	PPA	
Critical Repair/Replacement Requirement	Investment,PPA Level II	Discretionary - Appropriation
Plum Island Closure and Support	Investment,PPA Level II	Discretionary - Appropriation
Detection Sciences Testing and Applied Research Center	Investment,PPA Level II	Discretionary - Appropriation
Research and Development	Appropriation	
Research, Development and Innovation	PPA	
Border Security Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
Chemical, Biological, and Explosive Defense Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
Counter Terrorist Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
Cyber Security / Information Analysis Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
First Responder / Disaster Resilience Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
Innovation Research and Foundational Tools Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
Physical Security and Critical Infrastructure Resilience Thrust Area	R&D Project,PPA Level II	Discretionary - Appropriation
University Programs	PPA	
Centers of Excellence	R&D Project,PPA Level II	Discretionary - Appropriation
Minority Serving Institutions (MSI)	R&D Project,PPA Level II	Discretionary - Appropriation

Science and Technology Directorate Budget Comparison and Adjustments

Appropriation and PPA Summary *(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Operations and Support	\$369,811	\$369,811	\$367,530
Mission Support	\$163,718	\$163,718	\$163,731
Laboratory Facilities	\$128,373	\$128,373	\$131,836
Acquisition and Operations Analysis	\$77,720	\$77,720	\$71,963
Procurement, Construction, and Improvements	\$61,000	\$61,000	\$65,000
Construction and Facility Improvements	\$61,000	\$61,000	\$65,000
Critical Repair/Replacement Requirement	\$5,000	\$5,000	\$10,000
Plum Island Closure and Support	\$1,000	\$1,000	\$55,000
Detection Sciences Testing and Applied Research Center	\$55,000	\$55,000	-
Research and Development	\$310,823	\$310,823	\$326,224
Research, Development and Innovation	\$259,786	\$259,786	\$319,224
Border Security Thrust Area	\$70,835	\$70,835	\$142,663
Chemical, Biological, and Explosive Defense Thrust Area	\$13,840	\$13,840	\$11,311
Counter Terrorist Thrust Area	\$42,780	\$42,780	\$39,305
Cyber Security / Information Analysis Thrust Area	\$19,500	\$19,500	\$20,500
First Responder / Disaster Resilience Thrust Area	\$17,204	\$17,204	\$16,659
Innovation Research and Foundational Tools Thrust Area	\$67,345	\$67,345	\$62,615
Physical Security and Critical Infrastructure Resilience Thrust Area	\$28,282	\$28,282	\$26,171
University Programs	\$51,037	\$51,037	\$7,000
Centers of Excellence	\$45,880	\$45,880	\$7,000
Minority Serving Institutions (MSI)	\$5,157	\$5,157	-
Total	\$741,634	\$741,634	\$758,754

Science and Technology Directorate
Comparison of Budget Authority and Request
(Dollars in Thousands)

	FY 2024 Enacted			FY 2025 Full-Year CR			FY 2026 President's Budget			FY 2025 to FY 2026 Total Changes		
	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount
Operations and Support	574	565	\$369,811	574	565	\$369,811	574	566	\$367,530	-	1	(\$2,281)
Procurement, Construction, and Improvements	-	-	\$61,000	-	-	\$61,000	-	-	\$65,000	-	-	\$4,000
Research and Development	-	-	\$310,823	-	-	\$310,823	-	-	\$326,224	-	-	\$15,401
Total	574	565	\$741,634	574	565	\$741,634	574	566	\$758,754	-	1	\$17,120
Subtotal Discretionary - Appropriation	574	565	\$741,634	574	565	\$741,634	574	566	\$758,754	-	1	\$17,120

Component Budget Overview

The FY 2026 Budget includes \$758.8M; 574 positions; and 566 Full Time Equivalents (FTE) for the Science and Technology Directorate (S&T).

S&T's Research, Development, Test, and Evaluation (RDT&E) efforts are critical to maintaining threat awareness, delivering mitigation strategies, and creating cutting edge technology for the Department of Homeland Security (DHS) Components and partners in the Homeland Security Enterprise (HSE).

This Budget includes \$48.3M to further fund S&T's Support Anti-terrorism by Fostering Effective Technologies (SAFETY) Act Implementation Office to enhance processing time of applications and funding for Special Event Assessment Rating (SEAR) events, including the 2026 FIFA World Cup and the 2028 Olympics. The Budget provides \$55.0M for the Plum Island Closure, and transfer of all Plum Island real and personal property, and transportation assets to the U.S. Department of Agriculture's National Bio and Agro-Defense Facility (NBAF). S&T continues to prioritize its laboratory capital investment program to meet regulatory requirements, maintain modern technology standards, and perform end-of-life replacements for mission-critical equipment.

The FY 2026 Budget increases resources in the Border Security Thrust to \$142.6M, with a specific focus on enhancing port of entry and air security, Counter-Unmanned Aircraft Systems (C-UAS), maritime security, biometric technologies, and combatting fentanyl, and human trafficking. The Budget also includes \$54.7M for investments in immigration-based technologies, forensics and criminal investigations, Artificial Intelligence and Machine Learning (AI/ML), and emerging technology opportunities to meet Component requirements. S&T is making significant contributions in this area, particularly in the implementation of AI into operational missions including AI-enabled wildfire sensors capable of detecting fires 30 minutes before 911 emergency calls are made.

Science and Technology Directorate Personnel Compensation and Benefits

Pay Summary

(Dollars in Thousands)

	FY 2024 Enacted				FY 2025 Full-Year CR				FY 2026 President's Budget				FY 2025 to FY 2026 Total			
	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate
Operations and Support	574	565	\$129,718	\$220.92	574	565	\$129,718	\$220.92	574	566	\$140,356	\$239.04	-	1	\$10,638	\$18.12
Total	574	565	\$129,718	\$220.92	574	565	\$129,718	\$220.92	574	566	\$140,356	\$239.04	-	1	\$10,638	\$18.12
Subtotal Discretionary - Appropriation	574	565	\$129,718	\$220.92	574	565	\$129,718	\$220.92	574	566	\$140,356	\$239.04	-	1	\$10,638	\$18.12

Pay by Object Class

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
11.1 Full-time Permanent	\$82,807	\$82,807	\$89,584	\$6,777
11.3 Other than Full-time Permanent	\$6,775	\$6,775	\$6,997	\$222
11.5 Other Personnel Compensation	\$2,596	\$2,596	\$3,184	\$588
11.8 Special Personal Services Payments	\$4,898	\$4,898	\$5,058	\$160
12.1 Civilian Personnel Benefits	\$32,642	\$32,642	\$35,533	\$2,891
Total - Personnel Compensation and Benefits	\$129,718	\$129,718	\$140,356	\$10,638
Positions and FTE				
Positions - Civilian	574	574	574	-
FTE - Civilian	565	565	566	1

Science and Technology Directorate
Non Pay Budget Exhibits

Non Pay Summary
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Operations and Support	\$240,093	\$240,093	\$227,174	(\$12,919)
Procurement, Construction, and Improvements	\$61,000	\$61,000	\$65,000	\$4,000
Research and Development	\$310,823	\$310,823	\$326,224	\$15,401
Total	\$611,916	\$611,916	\$618,398	\$6,482
Subtotal Discretionary - Appropriation	\$611,916	\$611,916	\$618,398	\$6,482

Non Pay by Object Class*(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$2,107	\$2,107	\$2,293	\$186
22.0 Transportation of Things	\$126	\$126	\$117	(\$9)
23.1 Rental Payments to GSA	\$1,955	\$1,955	\$2,565	\$610
23.2 Rental Payments to Others	\$25	\$25	\$291	\$266
23.3 Communications, Utilities, & Miscellaneous	\$1,454	\$1,454	\$1,618	\$164
24.0 Printing and Reproduction	\$382	\$382	\$382	-
25.1 Advisory & Assistance Services	\$188,025	\$188,025	\$180,397	(\$7,628)
25.2 Other Services from Non-Federal Sources	\$7,993	\$7,993	\$7,991	(\$2)
25.3 Other Purchases of goods and services	\$42,017	\$42,017	\$41,080	(\$937)
25.4 Operations & Maintenance of Facilities	\$23,971	\$23,971	\$23,955	(\$16)
25.5 Research & Development Contracts	\$208,620	\$208,620	\$267,542	\$58,922
25.7 Operation & Maintenance of Equipment	\$10,425	\$10,425	\$16,701	\$6,276
25.8 Subsistence and Support of Persons	\$4	\$4	\$4	-
26.0 Supplies & Materials	\$1,897	\$1,897	\$5,047	\$3,150
31.0 Equipment	\$14,530	\$14,530	\$30,056	\$15,526
32.0 Land and Structures	\$58,520	\$58,520	\$31,518	(\$27,002)
41.0 Grants, Subsidies, and Contributions	\$49,826	\$49,826	\$6,805	(\$43,021)
42.0 Insurance Claims and Indemnities	\$39	\$39	\$36	(\$3)
Total - Non Pay Budget Object Class	\$611,916	\$611,916	\$618,398	\$6,482

**Science and Technology Directorate
Supplemental Budget Justification Exhibits**

Proposed Legislative Language

Operations and Support

For necessary expenses of the Science and Technology Directorate for operations and support, including the purchase or lease of not to exceed 5 vehicles, [\$369,811,000] *\$367,530,000*, of which [\$206,093,000] *\$203,799,000* shall remain available until September 30, [2026] *2027*: Provided, that not to exceed \$10,000 shall be for official reception and representation expenses.

Language Provision	Explanation
... [\$369,811,000] <i>\$367,530,000</i>	Dollar change only. No substantial change proposed.
... [\$206,093,000] <i>\$203,799,000</i>	Dollar change only. No substantial change proposed.
... [2026] <i>2027</i>	<p>Fiscal year change; updated period of availability. No substantial change proposed. S&T continues two-year funding for Acquisition and Operations Analysis (AOA) and Laboratory Facilities PPAs in the O&S appropriation. AOA supports the multi-year Research, Development, and Innovation PPA within the Research and Development appropriation. The activities such as test and evaluation, systems engineering, technology transition and international cooperative programs, support R&D projects that span across multiple fiscal years. Two-year funding in this PPA is necessary to ensure S&T's R&D programs have resources when needed, enabling timely program execution and support to DHS operational Components.</p> <p>Laboratory Facilities PPA supports the operations and facility maintenance of S&T's aging laboratories. The funding requirements for S&T's laboratory facilities are unique due to the nature of the assets and their complex operational needs. S&T's facility maintenance can only be planned to a certain point, and many unforeseen costs arise as part of maintaining laboratory facilities and operations. S&T's facilities range in age from 20 to 70 years old, like the Plum Island Animal Disease Center which opened in 1954, and the Transportation Security Lab which opened in 1992. All lab facilities require both end of life-cycle and emergency replacement of failing equipment. S&T's biocontainment laboratories oftentimes have costly repairs such as water tank and pipe leakages in decontamination areas. Two-year funding allows S&T to maintain contingency funding for these types of repairs.</p>

Procurement, Construction, and Improvements

For necessary expenses of the Science and Technology Directorate for Procurement, Construction, and Improvements, [\$61,000,000] \$65,000,000, to remain available until September 30, [2029] 2030.

Language Provision	Explanation
... [\$61,000,000] \$65,000,000	Dollar change only. No substantial change proposed.
... [2029] 2030	Fiscal year change only. No substantial change proposed.

Research and Development

For necessary expenses of the Science and Technology Directorate for Research and Development, [\$310,823,000] \$326,224,000, to remain available until September 30, [2027] 2028.

Language Provision	Explanation
... [\$310,823,000] \$326,224,000	Dollar change only. No substantial change proposed.
... [2027] 2028	<p>Fiscal year change. S&T continues three-year funding for both its R&D PPAs, University Programs and Research, Development, and Innovation.</p> <p>The nature of University Programs mission is to look at problems with uncertain outcomes through an innovative and fresh lens. Three-year funding allows time for team formulation, business/contract establishment between prime and subs, and experimentation and refinement of the technical approaches. This flexibility allows the Office of University Programs to make lower-risk determinations on whether a project and its resulting information will generate useful outcomes.</p> <p>In the Research, Development, and Innovation PPA, S&T conducts basic, applied, and developmental research to support DHS Components. Concepts must be developed, tested and validated to ensure that acquisition results in purpose-driven outcomes that lead to increased effectiveness, efficiency and safety for departmental missions. R&D is complex and can take months or years to address capability gaps depending on the research efforts to identify practical technologies, concepts and processes that can be incorporated into environments to increase the effectiveness, efficiency, and safety of operations.</p>

Department of Homeland Security

Science and Technology Directorate

Operations and Support



Fiscal Year 2026

Congressional Justification

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Operations and Support

Budget Comparison and Adjustments

Comparison of Budget Authority and Request

(Dollars in Thousands)

	FY 2024 Enacted			FY 2025 Full-Year CR			FY 2026 President's Budget			FY 2025 to FY 2026 Total Changes		
	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount
Mission Support	441	432	\$163,718	441	432	\$163,718	442	434	\$163,731	1	2	\$13
Laboratory Facilities	133	133	\$128,373	133	133	\$128,373	132	132	\$131,836	(1)	(1)	\$3,463
Acquisition and Operations Analysis	-	-	\$77,720	-	-	\$77,720	-	-	\$71,963	-	-	(\$5,757)
Total	574	565	\$369,811	574	565	\$369,811	574	566	\$367,530	-	1	(\$2,281)
Subtotal Discretionary - Appropriation	574	565	\$369,811	574	565	\$369,811	574	566	\$367,530	-	1	(\$2,281)

The Operations and Support (O&S) appropriation for the Science and Technology Directorate (S&T) provides funding to ensure delivery of advanced technology solutions to Department of Homeland Security (DHS) Components and first responders. This appropriation also supports Systems Engineering, Standards, and Test and Evaluation (T&E) to ensure that S&T and DHS Components develop effective technologies that work in the operational environment. This includes costs necessary for operations and support activities to advance S&T's mission, as well as salaries and benefits, and operating costs for five laboratory facilities.

The O&S appropriation has three Programs, Projects, and Activities (PPA):

Mission Support: The Mission Support PPA supports all S&T enterprise-level functions enabling technical divisions to manage the Research, Development, Test, and Evaluation (RDT&E) programs and provides funding for salaries and benefits, training and travel requirements, financial management, facility planning, maintenance, and other administrative functions. Offices supported under Mission Support include the Office of the Under Secretary, Administration and Support Division, Chief Information Office, Communications and Outreach, Compliance Division, Contract Acquisition Program Support, and the Finance and Budget Division. Additionally, this appropriation finances the Office of General Counsel requirements including Intellectual Property and trademark rights for DHS and its Components.

Laboratory Facilities: The Laboratory Facilities PPA provides funding for the operations and maintenance for S&T's Office of National Laboratories which includes five laboratory facilities and the salaries and benefits for employees. These laboratories and sites are national assets to DHS operational components and partners, and anchor a science, technology, engineering, and math presence in the areas in which they reside. Whether the mission need requires applied research supporting requirements definition, threat characterization, detection, mitigation or response, S&T's lab network provides technologies and knowledge to help prevent terrorism, secure the homeland, and strengthen national preparedness and

resilience. Laboratory Facilities coordinates the delivery of long-term capabilities vital to the homeland security mission through utilization of a coordinated network of S&T laboratories and Department of Energy (DOE) national laboratories.

Acquisition and Operations Analysis: The Acquisition and Operations Analysis (AOA) PPA provides resources that support expert assistance to entities across the Homeland Security Enterprise (HSE) to ensure that the transition, acquisition, and deployment of technologies, information, and procedures improve the efficiency and effectiveness of the operational capabilities across the HSE mission.

Operations and Support Summary of Budget Changes

(Dollars in Thousands)

	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
FY 2024 Enacted	574	565	\$129,718	\$240,093	\$369,811
FY 2025 Full-Year CR	574	565	\$129,718	\$240,093	\$369,811
FY 2026 Base Budget	574	565	\$129,718	\$240,093	\$369,811
Total Technical Changes	-	-	-	-	-
2025 Civilian Pay Raise and Annualization	-	-	\$2,629	-	\$2,629
Annualization of Federally Funded Research and Development Centers (FFRDC)	-	1	\$183	-	\$183
Total Annualizations and Non-Recurs	-	1	\$2,812	-	\$2,812
2024 Civilian Pay Raise Annualization	-	-	\$1,662	-	\$1,662
FPS Fee Adjustment	-	-	-	\$28	\$28
Capital Cost Sharing	-	-	-	\$19	\$19
Investment Adjustments	-	-	-	\$677	\$677
Laboratory Facilities IT Investment	-	-	-	\$100	\$100
Non-Major Investment Sustainment	-	-	-	\$197	\$197
Salary Adjustments	-	-	\$6,276	-	\$6,276
Total Pricing Changes	-	-	\$7,938	\$1,021	\$8,959
Total Adjustments-to-Base	-	1	\$10,750	\$1,021	\$11,771
FY 2026 Current Services	574	566	\$140,468	\$241,114	\$381,582
Financial Professionals Program from O&S/Mission Support to MGMT/OCFO	-	-	(\$29)	-	(\$29)
Transfer for Derived PIV Credential from S&T/O&S/MS to MGMT/O&S/OCFO	-	-	-	(\$17)	(\$17)
Realignment for Partnerships Intermediary Agreements from AOA to RDI	-	-	-	(\$1,000)	(\$1,000)
Total Transfers	-	-	(\$29)	(\$1,017)	(\$1,046)
AOA-Acquisition Support	-	-	-	(\$6,406)	(\$6,406)
AOA-Federally Funded Research and Development Center	-	-	-	(\$142)	(\$142)
AOA-SAFETY Act	-	-	-	\$2,000	\$2,000
AOA-Technology Transition Support	-	-	-	(\$228)	(\$228)
Artificial Intelligence: AI Testing and Evaluation	1	1	\$130	\$50	\$180
Laboratory Operations and Maintenance	-	-	-	\$975	\$975
MS-Enterprise Shared Services	-	-	-	(\$9,140)	(\$9,140)
PIADC to NBAF Employee Transition	(1)	(1)	(\$213)	(\$32)	(\$245)
Total Program Changes	-	-	(\$83)	(\$12,923)	(\$13,006)
FY 2026 Request	574	566	\$140,356	\$227,174	\$367,530
FY 2025 TO FY 2026 Change	-	1	\$10,638	(\$12,919)	(\$2,281)

Operations and Support Justification of Pricing Changes

(Dollars in Thousands)

	FY 2026 President's Budget				
	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
Pricing Change 1 - 2024 Civilian Pay Raise Annualization	-	-	\$1,662	-	\$1,662
Mission Support	-	-	\$1,331	-	\$1,331
Laboratory Facilities	-	-	\$331	-	\$331
Pricing Change 2 - FPS Fee Adjustment	-	-	-	\$28	\$28
Laboratory Facilities	-	-	-	\$28	\$28
Pricing Change 3 - Capital Cost Sharing	-	-	-	\$19	\$19
Acquisition and Operations Analysis	-	-	-	\$19	\$19
Pricing Change 4 - Investment Adjustments	-	-	-	\$677	\$677
Mission Support	-	-	-	\$641	\$641
Laboratory Facilities	-	-	-	\$36	\$36
Pricing Change 5 - Laboratory Facilities IT Investment	-	-	-	\$100	\$100
Laboratory Facilities	-	-	-	\$100	\$100
Pricing Change 6 - Non-Major Investment Sustainment	-	-	-	\$197	\$197
Mission Support	-	-	-	(\$3)	(\$3)
Laboratory Facilities	-	-	-	\$200	\$200
Pricing Change 7 - Salary Adjustments	-	-	\$6,276	-	\$6,276
Mission Support	-	-	\$4,773	-	\$4,773
Laboratory Facilities	-	-	\$1,503	-	\$1,503
Total Pricing Changes	-	-	\$7,938	\$1,021	\$8,959

Operations and Support
Justification of Transfer
(Dollars in Thousands)

	FY 2026 President's Budget				
	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
Transfer 1 - Financial Professionals Program from O&S/Mission Support to MGMT/OCFO	-	-	(\$29)	-	(\$29)
Mission Support	-	-	(\$29)	-	(\$29)
Transfer 2 - Transfer for Derived PIV Credential from S&T/O&S/MS to MGMT/O&S/OCSO	-	-	-	(\$17)	(\$17)
Mission Support	-	-	-	(\$17)	(\$17)
Transfer 3 - Realignment for Partnerships Intermediary Agreements from AOA to RDI	-	-	-	(\$1,000)	(\$1,000)
Acquisition and Operations Analysis	-	-	-	(\$1,000)	(\$1,000)
Total Transfer Changes	-	-	(\$29)	(\$1,017)	(\$1,046)

Operations and Support Justification of Program Changes

(Dollars in Thousands)

	FY 2026 President's Budget				
	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
Program Change 1 - AOA-Acquisition Support	-	-	-	(\$6,406)	(\$6,406)
Acquisition and Operations Analysis	-	-	-	(\$6,406)	(\$6,406)
Program Change 2 - AOA-Federally Funded Research and Development Center	-	-	-	(\$142)	(\$142)
Acquisition and Operations Analysis	-	-	-	(\$142)	(\$142)
Program Change 3 - AOA-SAFETY Act	-	-	-	\$2,000	\$2,000
Acquisition and Operations Analysis	-	-	-	\$2,000	\$2,000
Program Change 4 - AOA-Technology Transition Support	-	-	-	(\$228)	(\$228)
Acquisition and Operations Analysis	-	-	-	(\$228)	(\$228)
Program Change 5 - Artificial Intelligence: AI Testing and Evaluation	1	1	\$130	\$50	\$180
Mission Support	1	1	\$130	\$50	\$180
Program Change 6 - Laboratory Operations and Maintenance	-	-	-	\$975	\$975
Laboratory Facilities	-	-	-	\$975	\$975
Program Change 7 - MS-Enterprise Shared Services	-	-	-	(\$9,140)	(\$9,140)
Mission Support	-	-	-	(\$9,140)	(\$9,140)
Program Change 8 - PIADC to NBAF Employee Transition	(1)	(1)	(\$213)	(\$32)	(\$245)
Laboratory Facilities	(1)	(1)	(\$213)	(\$32)	(\$245)
Total Program Changes	-	-	(\$83)	(\$12,923)	(\$13,006)

Program Change 1 – AOA-Acquisition Support:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	-	-	\$37,398
Program Change	-	-	(\$6,406)

The FY 2026 Budget includes a decrease for the System of Systems Operational Analytics (SoSOA) program and its associated contracts. The Migrant Models Integration (MMI) initiative was completed in FY 2024, resulting in a functional analytical model that outlines DHS's migrant processing operations and their resource requirements and has now entered its maintenance phase. In FY 2025, the MMI model was integrated into the SoSOA platform and made accessible to all DHS analysts, there are no plans for further model development.

Program Change 2 – AOA-Federally Funded Research and Development Centers:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	-	-	\$5,405
Program Change	-	-	(\$142)

The FY 2026 Budget includes a decrease for the Federally Funded Research and Development Center (FFRDC) Program Management Office (PMO). The current baseline sustains the FFRDC PMO's operations and liaison role between DHS Components and the Homeland Security Enterprise (HSE) for future FFRDC solutions. The PMO provides centralized oversight and support for both the Homeland Security Operational Analysis Center (HSOAC) and the Homeland Security Systems Engineering and Development Institute (HSSEDI), assists in development of long- and short-term outreach strategies for components, acts as a repository for FFRDC research and deliverables, disseminates FFRDC-related information, and ensures appropriate department-wide access to FFRDCs.

Program Change 3 – AOA-SAFETY Act:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	-	-	\$17,900
Program Change	-	-	\$2,000

The FY 2026 Budget includes an increase for the Office of SAFETY Act Implementation (OSAI) to address the anticipated rise in demand due to upcoming high-threat profile special events, such as the FIFA World Cup 2026 and the 2028 Los Angeles Olympics and Paralympics (LA28). The SAFETY Act promotes the development and deployment of anti-terrorism technologies by providing private industry with litigation and risk management tools. By encouraging private sector innovation, the SAFETY Act enhances the protection of critical infrastructure, such as large venues and other soft targets, and stimulates investment in cutting-edge solutions that bolster the resilience of the Nation's most vital assets.

Program Change 4 – AOA-Technology Transition Support:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	-	-	\$10,717
Program Change	-	-	(\$228)

The FY 2026 Budget includes a decrease for the Technology Scouting and Transition (TST) project under the Technology Transition Support program with a focus on prioritizing and streamlining contractor resources and subscription services, while reducing centralized resources for program and project managers. The current baseline funds TST's maintenance of a centralized matrix of resources that support all S&T R&D activities throughout the entire R&D lifecycle. This centralized expertise eliminates the need for individual R&D activities to recreate capabilities, while generating repeatable, standardized, and streamlined processes, tools, templates and training.

Program Change 5 – Artificial Intelligence: AI Testing and Evaluation:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	-	-	-
Program Change	1	1	\$180

The FY 2026 Budget includes an increase of one GS-15 Artificial Intelligence (AI) subject matter expert to enhance AI governance and support Chief AI Officers (CAIOs) in fulfilling their responsibilities as outlined in Executive Order 14179. This position will serve as a Science Advisor to the Department and S&T, ensuring the responsible and safe use of AI capabilities as they are integrated into DHS missions. This position will reside within S&T's Technology Centers Division, specifically the Advanced Computing Technology Center, and manage critical experimentation, assessment, and test and evaluation functions of safety-impacting AI, rights-impacting AI, and facial recognition/face capture AI systems to deliver solutions to address the priority needs of DHS and the HSE.

Program Change 6 – Laboratory Operations and Maintenance:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	-	-	\$101,979
Program Change	-	-	\$975

The FY 2026 Budget includes an increase for Laboratory Operations and Maintenance at the Transportation Safety Laboratory (TSL) to sustain rising operations and maintenance costs. TSL is responsible for researching, developing, testing, and evaluating technologies that detect and mitigate the threat of explosives and other weapons that may be used against our Nation's transportation systems and infrastructure. TSL also provides expertise to DHS Operational Components to address detection gaps such as opioid detection, support the Transportation Security Administration (TSA) as its primary customer, and provide test and evaluation services to the U.S. Customs and Border Protection (CBP), U.S. Coast Guard (USCG), U.S. Secret Service (USSS), and other government organizations.

Program Change 7 – MS-Enterprise Shared Services:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	57	57	\$24,500
Program Change	-	-	(\$9,140)

The FY 2026 Budget includes a decrease for the Chief Information Office (CIO) IT services and the contract services supporting the Contract Acquisition Program Support Office (CAPS), which could impact S&T's IT solutions for its internal and external customers and increase the contract case load and time to contract execution. Funding will continue essential IT infrastructure, technical maintenance services, and acquisition support services critical to S&T's R&D mission, including statement of work review/editing, market research, project milestone tracking, closeout of contracts, and processing of Interagency Agreements.

Program Change 8 – Plum Island Animal Disease Center (PIADC) to the National Bio and Agro-Defense Facility (NBAF) Employee Transition:

<i>(\$ in thousands)</i>	Pos	FTE	Amount
Base: Current Services & Transfers	31	31	\$54,034
Program Change	-1	-1	(\$245)

The FY 2026 Budget includes a decrease to support the employee and mission transition from DHS's PIADC to the United States Department of Agriculture's (USDA) NBAF. S&T will transfer one General Schedule (GS) 14 Federal position to USDA as a part of the PIADC closure and sale and the functional transfer of the animal disease research mission to USDA NBAF.

Operations and Support Personnel Compensation and Benefits

Pay Summary (Dollars in Thousands)

	FY 2024 Enacted				FY 2025 Full-Year CR				FY 2026 President's Budget				FY 2025 to FY 2026 Total			
	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate
Mission Support	441	432	\$103,324	\$231.53	441	432	\$103,324	\$231.53	442	434	\$111,806	\$249.76	1	2	\$8,482	\$18.23
Laboratory Facilities	133	133	\$26,394	\$186.47	133	133	\$26,394	\$186.47	132	132	\$28,550	\$203.82	(1)	(1)	\$2,156	\$17.35
Total	574	565	\$129,718	\$220.92	574	565	\$129,718	\$220.92	574	566	\$140,356	\$239.04	-	1	\$10,638	\$18.12
Subtotal Discretionary - Appropriation	574	565	\$129,718	\$220.92	574	565	\$129,718	\$220.92	574	566	\$140,356	\$239.04	-	1	\$10,638	\$18.12

Pay by Object Class (Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
11.1 Full-time Permanent	\$82,807	\$82,807	\$89,584	\$6,777
11.3 Other than Full-time Permanent	\$6,775	\$6,775	\$6,997	\$222
11.5 Other Personnel Compensation	\$2,596	\$2,596	\$3,184	\$588
11.8 Special Personal Services Payments	\$4,898	\$4,898	\$5,058	\$160
12.1 Civilian Personnel Benefits	\$32,642	\$32,642	\$35,533	\$2,891
Total - Personnel Compensation and Benefits	\$129,718	\$129,718	\$140,356	\$10,638
Positions and FTE				
Positions - Civilian	574	574	574	-
FTE - Civilian	565	565	566	1

Operations and Support
Non Pay Budget Exhibits

Non Pay Summary
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Mission Support	\$60,394	\$60,394	\$51,925	(\$8,469)
Laboratory Facilities	\$101,979	\$101,979	\$103,286	\$1,307
Acquisition and Operations Analysis	\$77,720	\$77,720	\$71,963	(\$5,757)
Total	\$240,093	\$240,093	\$227,174	(\$12,919)
Subtotal Discretionary - Appropriation	\$240,093	\$240,093	\$227,174	(\$12,919)

Non Pay by Object Class*(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$1,261	\$1,261	\$1,238	(\$23)
22.0 Transportation of Things	\$126	\$126	\$117	(\$9)
23.1 Rental Payments to GSA	\$1,955	\$1,955	\$2,565	\$610
23.2 Rental Payments to Others	-	-	\$11	\$11
23.3 Communications, Utilities, & Miscellaneous	\$1,305	\$1,305	\$1,297	(\$8)
24.0 Printing and Reproduction	\$382	\$382	\$382	-
25.1 Advisory & Assistance Services	\$143,597	\$143,597	\$125,669	(\$17,928)
25.2 Other Services from Non-Federal Sources	\$6,389	\$6,389	\$6,204	(\$185)
25.3 Other Purchases of goods and services	\$36,719	\$36,719	\$35,264	(\$1,455)
25.4 Operations & Maintenance of Facilities	\$23,971	\$23,971	\$23,955	(\$16)
25.7 Operation & Maintenance of Equipment	\$9,397	\$9,397	\$15,574	\$6,177
25.8 Subsistence and Support of Persons	\$4	\$4	\$4	-
26.0 Supplies & Materials	\$1,476	\$1,476	\$1,467	(\$9)
31.0 Equipment	\$12,770	\$12,770	\$12,747	(\$23)
32.0 Land and Structures	\$20	\$20	\$18	(\$2)
41.0 Grants, Subsidies, and Contributions	\$682	\$682	\$626	(\$56)
42.0 Insurance Claims and Indemnities	\$39	\$39	\$36	(\$3)
Total - Non Pay Budget Object Class	\$240,093	\$240,093	\$227,174	(\$12,919)

*Mission Support – PPA***Budget Comparison and Adjustments****Comparison of Budget Authority and Request***(Dollars in Thousands)*

	FY 2024 Enacted			FY 2025 Full-Year CR			FY 2026 President's Budget			FY 2025 to FY 2026 Total Changes		
	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount
Mission Support	441	432	\$163,718	441	432	\$163,718	442	434	\$163,731	1	2	\$13
Total	441	432	\$163,718	441	432	\$163,718	442	434	\$163,731	1	2	\$13
Subtotal Discretionary - Appropriation	441	432	\$163,718	441	432	\$163,718	442	434	\$163,731	1	2	\$13

PPA Level 1 Description

Mission Support provides funding for financial management and procurement operations, IT management and critical infrastructure support, human capital and personnel security, real estate and facilities management, internal and external mission and research centric communications, and compliance support and oversight. Mission Support also funds compliance assurance, export controls, legal intellectual property services for R&D projects, and oversight of intellectual property and trademark rights for all of DHS. The administrative activities of non-laboratory personnel and offices have the important role of implementing Research Development Test & Evaluation (RDT&E) activities are supported by Mission Support resources.

Mission Support – PPA

Summary of Budget Changes

(Dollars in Thousands)

	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
FY 2024 Enacted	441	432	\$103,324	\$60,394	\$163,718
FY 2025 Full-Year CR	441	432	\$103,324	\$60,394	\$163,718
FY 2026 Base Budget	441	432	\$103,324	\$60,394	\$163,718
Total Technical Changes	-	-	-	-	-
2025 Civilian Pay Raise and Annualization	-	-	\$2,094	-	\$2,094
Annualization of Federally Funded Research and Development Centers (FFRDC)	-	1	\$183	-	\$183
Total Annualizations and Non-Recurs	-	1	\$2,277	-	\$2,277
2024 Civilian Pay Raise Annualization	-	-	\$1,331	-	\$1,331
Investment Adjustments	-	-	-	\$641	\$641
Non-Major Investment Sustainment	-	-	-	(\$3)	(\$3)
Salary Adjustments	-	-	\$4,773	-	\$4,773
Total Pricing Changes	-	-	\$6,104	\$638	\$6,742
Total Adjustments-to-Base	-	1	\$8,381	\$638	\$9,019
FY 2026 Current Services	441	433	\$111,705	\$61,032	\$172,737
Financial Professionals Program from O&S/Mission Support to MGMT/OCFO	-	-	(\$29)	-	(\$29)
Transfer for Derived PIV Credential from S&T/O&S/MS to MGMT/O&S/OCSO	-	-	-	(\$17)	(\$17)
Total Transfers	-	-	(\$29)	(\$17)	(\$46)
Artificial Intelligence: AI Testing and Evaluation	1	1	\$130	\$50	\$180
MS-Enterprise Shared Services	-	-	-	(\$9,140)	(\$9,140)
Total Program Changes	1	1	\$130	(\$9,090)	(\$8,960)
FY 2026 Request	442	434	\$111,806	\$51,925	\$163,731
FY 2025 TO FY 2026 Change	1	2	\$8,482	(\$8,469)	\$13

Mission Support – PPA Personnel Compensation and Benefits

Pay Summary (Dollars in Thousands)

	FY 2024 Enacted				FY 2025 Full-Year CR				FY 2026 President's Budget				FY 2025 to FY 2026 Total			
	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate
Mission Support	441	432	\$103,324	\$231.53	441	432	\$103,324	\$231.53	442	434	\$111,806	\$249.76	1	2	\$8,482	\$18.23
Total	441	432	\$103,324	\$231.53	441	432	\$103,324	\$231.53	442	434	\$111,806	\$249.76	1	2	\$8,482	\$18.23
Subtotal Discretionary - Appropriation	441	432	\$103,324	\$231.53	441	432	\$103,324	\$231.53	442	434	\$111,806	\$249.76	1	2	\$8,482	\$18.23

Pay by Object Class (Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
11.1 Full-time Permanent	\$65,482	\$65,482	\$70,831	\$5,349
11.3 Other than Full-time Permanent	\$6,285	\$6,285	\$6,491	\$206
11.5 Other Personnel Compensation	\$2,067	\$2,067	\$2,641	\$574
11.8 Special Personal Services Payments	\$3,304	\$3,304	\$3,412	\$108
12.1 Civilian Personnel Benefits	\$26,186	\$26,186	\$28,431	\$2,245
Total - Personnel Compensation and Benefits	\$103,324	\$103,324	\$111,806	\$8,482
Positions and FTE				
Positions - Civilian	441	441	442	1
FTE - Civilian	432	432	434	2

Mission Support – PPA Non Pay Budget Exhibits

Non Pay Summary (Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Mission Support	\$60,394	\$60,394	\$51,925	(\$8,469)
Total	\$60,394	\$60,394	\$51,925	(\$8,469)
Subtotal Discretionary - Appropriation	\$60,394	\$60,394	\$51,925	(\$8,469)

Non Pay by Object Class (Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$736	\$736	\$738	\$2
23.2 Rental Payments to Others	-	-	\$11	\$11
23.3 Communications, Utilities, & Miscellaneous	\$1,291	\$1,291	\$1,296	\$5
24.0 Printing and Reproduction	\$140	\$140	\$140	-
25.1 Advisory & Assistance Services	\$35,646	\$35,646	\$21,579	(\$14,067)
25.2 Other Services from Non-Federal Sources	\$1,716	\$1,716	\$1,724	\$8
25.3 Other Purchases of goods and services	\$4,585	\$4,585	\$4,172	(\$413)
25.4 Operations & Maintenance of Facilities	\$333	\$333	\$321	(\$12)
25.7 Operation & Maintenance of Equipment	\$8,796	\$8,796	\$14,984	\$6,188
26.0 Supplies & Materials	\$775	\$775	\$777	\$2
31.0 Equipment	\$6,376	\$6,376	\$6,183	(\$193)
Total - Non Pay Budget Object Class	\$60,394	\$60,394	\$51,925	(\$8,469)

*Laboratory Facilities – PPA***Budget Comparison and Adjustments****Comparison of Budget Authority and Request***(Dollars in Thousands)*

	FY 2024 Enacted			FY 2025 Full-Year CR			FY 2026 President's Budget			FY 2025 to FY 2026 Total Changes		
	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount
Laboratory Facilities	133	133	\$128,373	133	133	\$128,373	132	132	\$131,836	(1)	(1)	\$3,463
Total	133	133	\$128,373	133	133	\$128,373	132	132	\$131,836	(1)	(1)	\$3,463
Subtotal Discretionary - Appropriation	133	133	\$128,373	133	133	\$128,373	132	132	\$131,836	(1)	(1)	\$3,463

PPA Level I Description

The Laboratory Facilities PPA provides funding to support operations, infrastructure capabilities, maintenance, and personnel requirements at S&T's laboratory facilities. Laboratory Facilities is managed by the Office of National Laboratories (ONL), which oversees the continued operations of S&T's laboratory facilities to include the National Biodefense Analysis and Countermeasures Center (NBACC), Plum Island Animal Disease Center (PIADC), Transportation Security Lab (TSL), National Urban Security Technology Laboratory (NUSTL), and Chemical Security Analysis Center (CSAC) to meet mission requirements while maintaining safe, secure, compliant, and efficient operations. ONL also maintains capabilities vital to DHS and the national homeland security mission through a coordinated network of S&T and DOE national laboratories; is a crucial contributor to technology efforts and is a key resource in S&T's matrixed organization providing scientifically based RDT&E to deliver solutions; and provides an enduring capability of subject matter expertise and dedicated technical infrastructure critical to the success in each of S&T's RD&I thrust areas.

The following operations and facilities are supported in this PPA:

National Biodefense Analysis and Countermeasures Center Operations (NBACC): NBACC provides the capability to characterize current and future biological threats, assess their impacts, and inform the development of countermeasures and vaccines in response to events and identified threats. Through its "Work for Others" program, NBACC is utilized across the Federal Government and private sector to conduct work for Federal agencies and non-Federal entities on a reimbursable basis. S&T operates NBACC as a FFRDC, which plans, manages, and executes the NBACC research programs and operates the facility.

Plum Island Animal Disease Center Operations (PIADC): PIADC has an interagency mission to protect U.S. agriculture from high-consequence foreign animal diseases, such as Foot-and-Mouth Disease. PIADC provides a host of high-impact, indispensable preparedness, and response capabilities, including vaccine R&D, diagnostics, training, and bio forensics. The biological countermeasures developed at PIADC support S&T's

Food, Agriculture and Veterinary Defense program. S&T is responsible for the management, operations, and maintenance of the complex, which includes laboratory facilities, waste processing, warehousing, offices space, and storage.

Transportation Security Laboratory Operations: TSL is responsible for researching, developing, testing, and evaluating technologies to detect and mitigate the threat of explosives and other weapons that may be used against our Nation's transportation systems and infrastructure. TSL supports TSA as its primary customer and provides test and evaluation services to CBP, USCG, USSS, and other government organizations. TSL operates a remote test facility located at Tyndall Air Force Base, FL, to collect homemade explosive detection data for developmental and certification testing of transportation security equipment, as well as the Detection Technology Center at Redstone Arsenal in Huntsville, AL. This placement co-locates S&T with the Federal Bureau of Investigation's Terrorist Explosive Device Analytical Center Improvised Explosive Detection and Synthesis Center to conduct rapid home-made explosive characterization and assessment of detection system performance against emerging threats.

National Urban Security Technology Laboratory (NUSTL): NUSTL's test and evaluation and R&D capabilities help first responders prepare for, protect against, respond to, and recover from homeland security challenges, threats, and hazards. NUSTL's independent technology evaluations and assessments enable informed acquisition and deployment decisions, ensuring first responders have access to the best tools and technologies available to perform their duties safely and effectively. As a preferred and trusted resource for first responder agencies at all levels of the government (Federal, State, and local), NUSTL collaborates with end-users to promote the successful deployment of commercial and emerging technologies into field use for law enforcement, fire, and other emergency response agencies.

Chemical Security Analysis Center Operations (CSAC): CSAC conducts studies and analyses for assessing the threat and hazards associated with an accidental or intentional large-scale chemical event, or chemical terrorism event, as well as explores AI/Machine Learning to efficiently fill critical data gaps for physical properties, toxicity, synthetic pathways, and detection signatures for priority compounds. CSAC is strategically co-located at the U.S. Army Combat Capabilities Development Command Chemical Biological Center at Aberdeen Proving Ground-Edgewood in Maryland and supports a variety of customers within the Federal Government, HSE, to include but not limited to S&T's Chemical and Biological work, Cybersecurity and Infrastructure Security Agency (CISA), USSS, TSA, Federal Emergency Management Agency (FEMA), the National Security Council and other Federal agencies.

Laboratory Facilities – PPA Summary of Budget Changes

(Dollars in Thousands)

	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
FY 2024 Enacted	133	133	\$26,394	\$101,979	\$128,373
FY 2025 Full-Year CR	133	133	\$26,394	\$101,979	\$128,373
FY 2026 Base Budget	133	133	\$26,394	\$101,979	\$128,373
Total Technical Changes	-	-	-	-	-
2025 Civilian Pay Raise and Annualization	-	-	\$535	-	\$535
Total Annualizations and Non-Recurs	-	-	\$535	-	\$535
2024 Civilian Pay Raise Annualization	-	-	\$331	-	\$331
FPS Fee Adjustment	-	-	-	\$28	\$28
Investment Adjustments	-	-	-	\$36	\$36
Laboratory Facilities IT Investment	-	-	-	\$100	\$100
Non-Major Investment Sustainment	-	-	-	\$200	\$200
Salary Adjustments	-	-	\$1,503	-	\$1,503
Total Pricing Changes	-	-	\$1,834	\$364	\$2,198
Total Adjustments-to-Base	-	-	\$2,369	\$364	\$2,733
FY 2026 Current Services	133	133	\$28,763	\$102,343	\$131,106
Total Transfers	-	-	-	-	-
Laboratory Operations and Maintenance	-	-	-	\$975	\$975
PIADC to NBAF Employee Transition	(1)	(1)	(\$213)	(\$32)	(\$245)
Total Program Changes	(1)	(1)	(\$213)	\$943	\$730
FY 2026 Request	132	132	\$28,550	\$103,286	\$131,836
FY 2025 TO FY 2026 Change	(1)	(1)	\$2,156	\$1,307	\$3,463

Laboratory Facilities – PPA Personnel Compensation and Benefits

Pay Summary

(Dollars in Thousands)

	FY 2024 Enacted				FY 2025 Full-Year CR				FY 2026 President's Budget				FY 2025 to FY 2026 Total			
	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate	Pos.	FTE	Amount	Rate
Laboratory Facilities	133	133	\$26,394	\$186.47	133	133	\$26,394	\$186.47	132	132	\$28,550	\$203.82	(1)	(1)	\$2,156	\$17.35
Total	133	133	\$26,394	\$186.47	133	133	\$26,394	\$186.47	132	132	\$28,550	\$203.82	(1)	(1)	\$2,156	\$17.35
Subtotal Discretionary - Appropriation	133	133	\$26,394	\$186.47	133	133	\$26,394	\$186.47	132	132	\$28,550	\$203.82	(1)	(1)	\$2,156	\$17.35

Pay by Object Class

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
11.1 Full-time Permanent	\$17,325	\$17,325	\$18,753	\$1,428
11.3 Other than Full-time Permanent	\$490	\$490	\$506	\$16
11.5 Other Personnel Compensation	\$529	\$529	\$543	\$14
11.8 Special Personal Services Payments	\$1,594	\$1,594	\$1,646	\$52
12.1 Civilian Personnel Benefits	\$6,456	\$6,456	\$7,102	\$646
Total - Personnel Compensation and Benefits	\$26,394	\$26,394	\$28,550	\$2,156
Positions and FTE				
Positions - Civilian	133	133	132	(1)
FTE - Civilian	133	133	132	(1)

Laboratory Facilities – PPA Non Pay Budget Exhibits

Non Pay Summary

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Laboratory Facilities	\$101,979	\$101,979	\$103,286	\$1,307
Total	\$101,979	\$101,979	\$103,286	\$1,307
Subtotal Discretionary - Appropriation	\$101,979	\$101,979	\$103,286	\$1,307

Non Pay by Object Class

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$228	\$228	\$226	(\$2)
22.0 Transportation of Things	\$17	\$17	\$17	-
23.1 Rental Payments to GSA	\$1,955	\$1,955	\$2,565	\$610
23.3 Communications, Utilities, & Miscellaneous	\$14	\$14	\$1	(\$13)
24.0 Printing and Reproduction	\$222	\$222	\$222	-
25.1 Advisory & Assistance Services	\$52,073	\$52,073	\$52,205	\$132
25.2 Other Services from Non-Federal Sources	\$2,316	\$2,316	\$2,316	-
25.3 Other Purchases of goods and services	\$14,345	\$14,345	\$14,738	\$393
25.4 Operations & Maintenance of Facilities	\$23,587	\$23,587	\$23,587	-
25.7 Operation & Maintenance of Equipment	\$533	\$533	\$528	(\$5)
26.0 Supplies & Materials	\$634	\$634	\$628	(\$6)
31.0 Equipment	\$6,055	\$6,055	\$6,253	\$198
Total - Non Pay Budget Object Class	\$101,979	\$101,979	\$103,286	\$1,307

*Acquisitions and Operations Analysis – PPA***Budget Comparison and Adjustments****Comparison of Budget Authority and Request***(Dollars in Thousands)*

	FY 2024 Enacted			FY 2025 Full-Year CR			FY 2026 President's Budget			FY 2025 to FY 2026 Total Changes		
	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount	Pos.	FTE	Amount
Acquisition and Operations Analysis	-	-	\$77,720	-	-	\$77,720	-	-	\$71,963	-	-	(\$5,757)
Total	-	-	\$77,720	-	-	\$77,720	-	-	\$71,963	-	-	(\$5,757)
Subtotal Discretionary - Appropriation	-	-	\$77,720	-	-	\$77,720	-	-	\$71,963	-	-	(\$5,757)

PPA Level I Description

The Acquisition and Operations (AOA) PPA provides funding to support expert assistance, including systems engineering, to entities across the HSE to ensure that the transition, acquisition, and deployment of technologies, information, and procedures improve the efficiency and effectiveness of the operational capabilities. This includes technological assessments of major DHS acquisition programs to ensure that technologies, concepts of operations (CONOPS), and procedures meet operational requirements, technology analysis and review of alternatives throughout an acquisition program's lifecycle, the establishment of standards to support the homeland security mission; and administration of the SAFETY Act program.

Federally Funded Research and Development Centers Program Management Office (FFRDC PMO): The FFRDC PMO provides centralized oversight and support to the two FFRDCs: the Homeland Security Operational Analysis Center (HSOAC) and the Homeland Security Systems Engineering and Development Institutes (HSSEDI). These FFRDCs operate in the public interest, ensuring the highest levels of excellence by integrating expertise and perspectives from government, industry, and academia. The close, yet independent, relationship between DHS and the FFRDCs enable them to deliver objective, independent research and analysis, free from conflicts of interest, resulting in actionable recommendations and candid advice grounded in a long-term trusted partnership.

International Cooperative Programs Office (ICPO): ICPO implements the Under Secretary's unique authorities within DHS to set priorities for international cooperative RDT&E to include; exchange of personnel, classified information, and equipment to support these activities, and the implementation of initiatives through appropriate legislative mechanisms. International cooperation enhances mutual understanding of shared security interests and leverages foreign direct investment in S&T RDT&E, while building lasting relationships to access the innovation ecosystem (i.e., government, academia, laboratories, and industry). Through bilateral and multilateral cooperation, such as engagements with the Five Country Ministerial and North Atlantic Treaty Organization, ICPO coordinates with DHS operational components, the DHS Policy Office of International Affairs, and the U.S. Government interagency, particularly the Department of State, to develop of strategic priorities for these activities.

Knowledge Management Office: This program enhances S&T’s ability to gather and manage essential knowledge and information for the benefit of the HSE, to identify and evaluate existing or developing technologies, services, and emerging trends. The Knowledge Management program creates and sustains an environment where S&T employees can share and access relevant knowledge and lessons learned, fostering collaborative development efforts. Effective management of knowledge and information protects individual privacy, ensures compliance with Freedom of Information Act requirements, and cost-effectively disseminates important information to a broad and varied homeland security audience.

Partnership Intermediary Agreements (PIA): The transfer and commercialization of federally-funded technologies can be time-consuming and costly, particularly when resources are limited at government agencies. S&T leverages its network of qualified Partnership Intermediary organizations to enhance the maturity and market readiness of DHS-funded technologies, preparing them for transfer and commercialization to meet DHS’s operational needs and those of the broader HSE. This program enables S&T’s Technology Transfer and Commercialization to expand its reach by promoting and marketing DHS technologies, fostering increased partnerships with various businesses and academia, gaining industry insights on DHS technologies, and increasing the likelihood of impactful research outcomes.

Office of the Chief Scientist (CS): The CS serves as the Under Secretary of Science and Technology’s (USST) senior science and technology advisor, providing insights into the effectiveness of S&T’s investments and ensuring they deliver capabilities to the DHS operational community in the short, medium and long term. Additionally, the CS monitors the technical horizon to identify emerging technologies that could enhance national security or pose new threats. The CS also engages with the domestic and international science communities to promote increased cooperation.

Operations and Requirements Analysis (ORA): Through the S&T managed DHS Integrated Product Team (IPT) process, and in coordination with the DHS Joint R&D Requirements, S&T identifies common or similar operational R&D needs across DHS components and delivers operational analyses that support technical solutions to enhance DHS’s overall efficiency and effectiveness. The ORA manages this process by breaking down capability gaps into actionable requirements and informing R&D planning and resource allocation. ORA also leads S&T activities mandated by the *Foundations for Evidence-Based Policymaking Act of 2018* (Evidence Act), which includes developing a quadrennial learning agenda, annual evaluation plans, a quadrennial capacity assessment, and products used to assess, improve, and advise evidence building activities across DHS.

SAFETY Act: The SAFETY Act program, mandated by Congress, provides liability protections for sellers of qualified anti-terrorism technologies that could save lives during a terrorist attack. This program enhances national anti-terrorism capabilities, serving both public and private stakeholders, and fosters collaboration with industry and small businesses to accelerate and improve solution development for the HSE’s critical needs. Additionally, the SAFETY Act Program actively supports various DHS programs and initiatives such as the National Infrastructure Protection Plan, TSA’s Certified Cargo Screening Program, CBP’s Customs-Trade Partnership Against Terrorism and other Federal anti-terrorism programs, by developing a streamlined procedure for providing SAFETY Act coverage, known as Block Designations.

Standards: S&T fulfills the statutory functions of the Standards Executive for DHS and implements DHS’s statutory responsibilities for utilizing and participating in the development of consensus standards. These responsibilities are carried out through membership, participation, leadership, and coordination with multiple national and international standards development organizations and interagency groups. S&T provides technical standards, test methods, test kits, and guidance to DHS components and the HSE.

Strategy and Policy Office (SPO): This office oversees the development of S&T-wide strategies and sets the organization's strategic direction. SPO is responsible for creating and maintaining the S&T Strategy, leading engagement with interagency, international, and industry partners, and ensuring alignment of S&T planning, policy, and programs. Additionally, SPO manages S&T's Interagency Programs, addressing high-priority homeland security needs through facilitation and collaboration on cooperative science, technology, and RDT&E initiatives with other Federal agencies, academia, and the private sector.

Systems Engineering: Systems Engineering enhances the efficiency of DHS programs by systematically transforming Component requirements into operational capabilities through a disciplined and consistent process that manages technical risk, ensuring the attainment of cost, schedule, and performance objectives from concept definition to deployment. S&T conducts Technical Assessments of DHS Acquisition programs to identify major technical risks, offer recommendations to mitigate those risks, support objective decision-making, and ensure the technical soundness of programs. S&T also provides technical expertise to DHS Acquisition oversight offices, including the Office of Program Accountability and Risk Management, Office of the Chief Information Officer, and the DHS Joint Requirement Council (JRC).

System of Systems Operational Analytics (SoSOA): This initiative elevates SoSOA to an enterprise-level capability, enhancing the effectiveness and efficiency of DHS data analytics and enabling the analysis of highly complex systems of interdependent components (system of systems) for DHS components, Headquarter Offices, including the Joint Requirements Council (JRC), DHS Chief Financial Officer, and Office of Health and Safety Services (OHSS). Building on several earlier proof-of-concept projects, this effort has facilitated the development of highly versatile modeling and simulation capabilities. There is a strong demand within the HSE for a fully mature, enterprise-wide SoSOA capability and an enterprise-level capability with common analytic frameworks, tools, and training.

Test and Evaluation (T&E): Serves as the authority to provide programs with a thorough understanding of system capabilities and limitations when operated and supported by trained users in the intended operational environment. Additionally, T&E trains members of the DHS Acquisition Workforce Test & Evaluation Career Field members. T&E also plays a critical role in delivering enhanced capabilities to DHS operators by improving acquisition outcomes through comprehensive engagement in major acquisition programs and R&D efforts.

Technology Scouting and Transition (TST): Supports S&T's strategic and tactical R&D investment decision-making by enhancing the understanding of the current state of technology, including new and emerging technologies and the private sector by providing innovative, cutting-edge technology discovery and end-to-end transition support as well as maintaining a knowledge repository for information sharing. TST conducts activities that inform and support R&D decisions, facilitating the transition and dissemination of solutions to meet DHS's customer requirements. This is achieved through technology scouting, operational experiments, transition planning, and the Technology Clearinghouse.

Acquisitions and Operations Analysis – PPA

Summary of Budget Changes

(Dollars in Thousands)

	Positions	FTE	Pay Amount	Non-Pay Amount	Amount
FY 2024 Enacted	-	-	-	\$77,720	\$77,720
FY 2025 Full-Year CR	-	-	-	\$77,720	\$77,720
FY 2026 Base Budget	-	-	-	\$77,720	\$77,720
Total Technical Changes	-	-	-	-	-
Total Annualizations and Non-Recurs	-	-	-	-	-
Capital Cost Sharing	-	-	-	\$19	\$19
Total Pricing Changes	-	-	-	\$19	\$19
Total Adjustments-to-Base	-	-	-	\$19	\$19
FY 2026 Current Services	-	-	-	\$77,739	\$77,739
Realignment for Partnerships Intermediary Agreements from AOA to RDI	-	-	-	(\$1,000)	(\$1,000)
Total Transfers	-	-	-	(\$1,000)	(\$1,000)
AOA-Acquisition Support	-	-	-	(\$6,406)	(\$6,406)
AOA-Federally Funded Research and Development Center	-	-	-	(\$142)	(\$142)
AOA-SAFETY Act	-	-	-	\$2,000	\$2,000
AOA-Technology Transition Support	-	-	-	(\$228)	(\$228)
Total Program Changes	-	-	-	(\$4,776)	(\$4,776)
FY 2026 Request	-	-	-	\$71,963	\$71,963
FY 2025 TO FY 2026 Change	-	-	-	(\$5,757)	(\$5,757)

Acquisitions and Operations Analysis – PPA

Non Pay Budget Exhibits

Non Pay Summary

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Acquisition and Operations Analysis	\$77,720	\$77,720	\$71,963	(\$5,757)
Total	\$77,720	\$77,720	\$71,963	(\$5,757)
Subtotal Discretionary - Appropriation	\$77,720	\$77,720	\$71,963	(\$5,757)

Non Pay by Object Class

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$297	\$297	\$274	(\$23)
22.0 Transportation of Things	\$109	\$109	\$100	(\$9)
24.0 Printing and Reproduction	\$20	\$20	\$20	-
25.1 Advisory & Assistance Services	\$55,878	\$55,878	\$51,885	(\$3,993)
25.2 Other Services from Non-Federal Sources	\$2,357	\$2,357	\$2,164	(\$193)
25.3 Other Purchases of goods and services	\$17,789	\$17,789	\$16,354	(\$1,435)
25.4 Operations & Maintenance of Facilities	\$51	\$51	\$47	(\$4)
25.7 Operation & Maintenance of Equipment	\$68	\$68	\$62	(\$6)
25.8 Subsistence and Support of Persons	\$4	\$4	\$4	-
26.0 Supplies & Materials	\$67	\$67	\$62	(\$5)
31.0 Equipment	\$339	\$339	\$311	(\$28)
32.0 Land and Structures	\$20	\$20	\$18	(\$2)
41.0 Grants, Subsidies, and Contributions	\$682	\$682	\$626	(\$56)
42.0 Insurance Claims and Indemnities	\$39	\$39	\$36	(\$3)
Total - Non Pay Budget Object Class	\$77,720	\$77,720	\$71,963	(\$5,757)

Department of Homeland Security

Science and Technology Directorate

Procurement, Construction, and Improvements



Fiscal Year 2026

Congressional Justification

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Procurement, Construction, and Improvements

Budget Comparison and Adjustments

Comparison of Budget Authority and Request
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Construction and Facility Improvements	\$61,000	\$61,000	\$65,000	\$4,000
Total	\$61,000	\$61,000	\$65,000	\$4,000
Subtotal Discretionary - Appropriation	\$61,000	\$61,000	\$65,000	\$4,000

S&T’s Procurement, Construction & Improvements (PC&I) appropriation provides resources to ensure the core capabilities of its laboratory infrastructure are operational in support of DHS mission requirements. PC&I funding allows S&T to make essential investments in construction, maintenance, modernization, and asset replacement or removal as necessary to support requirements generated by DHS Components. In addition, PC&I funding enables S&T to invest in equipment and information technology to ensure that S&T laboratories maintain operational readiness and associated accreditations.

Construction and Facilities Improvement PPA: This PPA supports all major construction and improvements for S&T’s laboratories above the real property threshold of \$2.0M set for minor construction in Operations and Support (O&S) appropriation.

Procurement, Construction, and Improvements
Summary of Budget Changes
(Dollars in Thousands)

	Positions	FTE	Amount
FY 2024 Enacted	-	-	\$61,000
FY 2025 Full-Year CR	-	-	\$61,000
FY 2026 Base Budget	-	-	-
Critical Repair/Replacement Requirement	-	-	\$10,000
Plum Island Closure and Support	-	-	\$55,000
Total Investment Elements	-	-	\$65,000
FY 2026 Request	-	-	\$65,000
FY 2025 TO FY 2026 Change	-	-	\$4,000

Procurement, Construction, and Improvements**Non Pay Budget Exhibits****Non Pay by Object Class***(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	-	-	\$50	\$50
23.2 Rental Payments to Others	-	-	\$250	\$250
23.3 Communications, Utilities, & Miscellaneous	-	-	\$150	\$150
25.1 Advisory & Assistance Services	\$1,000	\$1,000	\$11,300	\$10,300
25.5 Research & Development Contracts	-	-	\$1,750	\$1,750
26.0 Supplies & Materials	-	-	\$3,000	\$3,000
31.0 Equipment	\$1,500	\$1,500	\$17,000	\$15,500
32.0 Land and Structures	\$58,500	\$58,500	\$31,500	(\$27,000)
Total - Non Pay Budget Object Class	\$61,000	\$61,000	\$65,000	\$4,000

Procurement, Construction, and Improvements
Capital Investment Exhibits

Capital Investments
(Dollars in Thousands)

	Acquisition Level	IT/ Non-IT	MAOL	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
N024_000008122 - Detection Sciences Testing and Applied Research Center	Level 3	Non-IT	Yes	\$55,000	\$55,000	-
N/A - Critical Repair/Replacement Requirement	Non-Major	Non-IT	No	\$5,000	\$5,000	\$10,000
N/A - Plum Island Closure and Support	Level 3	Non-IT	No	\$1,000	\$1,000	\$55,000

Procurement, Construction, and Improvements**Budget Comparison and Adjustments****Comparison of Budget Authority and Request***(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Critical Repair/Replacement Requirement	\$5,000	\$5,000	\$10,000	\$5,000
Plum Island Closure and Support	\$1,000	\$1,000	\$55,000	\$54,000
Detection Sciences Testing and Applied Research Center	\$55,000	\$55,000	-	(\$55,000)
Total	\$61,000	\$61,000	\$65,000	\$4,000
Subtotal Discretionary - Appropriation	\$61,000	\$61,000	\$65,000	\$4,000

PPA Level I Description

The Construction and Facility Improvements (CFI) PPA supports all major construction and enhancements for S&T's laboratories. These facilities include:

- The National Biodefense Analysis and Countermeasures Center (NBACC) at Fort Detrick in Frederick, Maryland
- The Plum Island Animal Disease Center (PIADC) on Plum Island, New York
- The Transportation Security Laboratory (TSL) in Atlantic City, New Jersey
- The National Urban Security Technology Laboratory (NUSTL) in New York, New York
- The Chemical Security Analysis Center (CSAC) at Aberdeen Proving Ground in Maryland

These five laboratories are critical to the national homeland security mission, allowing America's top scientists and engineers to leverage their expertise in developing solutions to address the most dangerous threats and vulnerabilities facing homeland security.

The CFI PPA provides funding for construction, completing facility maintenance and repair, replacing outdated and end-of-life laboratory equipment, and investing in capital improvements – including Information Technology (IT) modernization – to meet evolving mission requirements. These investments support critical scientific and technical capabilities necessary for conducting research, development, testing and evaluation (RDT&E) for DHS and the Homeland Security Enterprise (HSE).

This PPA is comprised of the following investments:

Critical Repair/Replacement Requirement: The FY 2026 Budget continues to fund a capital investment program which enables S&T laboratories to meet regulatory requirements, uphold modern technological standards, and replace mission-critical equipment that has reached the end of its lifecycle.

Plum Island Closure and Support (PICS): The FY 2026 Budget continues to support the PICS Program and activities needed for the transition, closure, and conveyance of all Plum Island real property (including the Orient Point property) and all related personal property and transportation assets, after the PIADC science mission is fully transferred to the National Bio- and Agro-defense Facility (NBAF) in October 2026; this change in mission transfer, originally planned for December 2023, will delay the PICS deterministic finish until March 2031 (or approximately three years from the currently approved baseline).

The requested funding will enable S&T to continue the revised plan and further progresses the transition and closure of the island while PIADC operations (funded by O&S) continues through mission transition to NBAF. The PICS current approved baseline of \$150.0M will increase due to the need to re-baseline the program based upon the transition delay, and the new estimate for closure is approximately \$228.8M.

Detection Sciences Testing and Applied Research (DSTAR) Center: The FY 2026 Budget does not request additional funding for this construction investment. The facility will include partially automated, state-of-the-art laboratories to provide for the safe and effective validation of explosive screening devices. It also will include sterile areas for test and evaluation of trace detection devices and modern computational infrastructure for analyzing and archiving threat images from computed tomography and millimeter wave threat screening devices.

Construction and Facility Improvements – PPA

Summary of Budget Changes

(Dollars in Thousands)

	Positions	FTE	Amount
FY 2024 Enacted	-	-	\$61,000
FY 2025 Full-Year CR	-	-	\$61,000
FY 2026 Base Budget	-	-	-
Critical Repair/Replacement Requirement	-	-	\$10,000
Plum Island Closure and Support	-	-	\$55,000
Total Investment Elements	-	-	\$65,000
FY 2026 Request	-	-	\$65,000
FY 2025 TO FY 2026 Change	-	-	\$4,000

Construction and Facility Improvements – PPA**Non Pay Budget Exhibits****Non Pay by Object Class***(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	-	-	\$50	\$50
23.2 Rental Payments to Others	-	-	\$250	\$250
23.3 Communications, Utilities, & Miscellaneous	-	-	\$150	\$150
25.1 Advisory & Assistance Services	\$1,000	\$1,000	\$11,300	\$10,300
25.5 Research & Development Contracts	-	-	\$1,750	\$1,750
26.0 Supplies & Materials	-	-	\$3,000	\$3,000
31.0 Equipment	\$1,500	\$1,500	\$17,000	\$15,500
32.0 Land and Structures	\$58,500	\$58,500	\$31,500	(\$27,000)
Total - Non Pay Budget Object Class	\$61,000	\$61,000	\$65,000	\$4,000

Construction and Facility Improvements – PPA
Capital Investment Exhibits

Capital Investments*(Dollars in Thousands)*

	Acquisition Level	IT/ Non-IT	MAOL	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
N024_000008122 - Detection Sciences Testing and Applied Research Center	Level 3	Non-IT	Yes	\$55,000	\$55,000	-
N/A - Critical Repair/Replacement Requirement	Non-Major	Non-IT	No	\$5,000	\$5,000	\$10,000
N/A - Plum Island Closure and Support	Level 3	Non-IT	No	\$1,000	\$1,000	\$55,000

Critical Repair/Replacement Requirement– Investment

Capital Investment Exhibits

Construction

(Dollars in Thousands)

	Acquisition Level	IT/ Non-IT	MAOL	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
N/A - Critical Repair/Replacement Requirement	Non-Major	Non-IT	No	\$5,000	\$5,000	\$10,000

This investment focuses on critical infrastructure upgrades and replacements for S&T's laboratory facilities, including NBACC, TSL, NUSTL, PIADC, and CSAC. This program enables S&T laboratories to maintain compliance with regulatory requirements, modern technology standards, and perform end of life replacements for mission-critical equipment.

The FY 2026 Budget includes \$10.0M to support these improvements and address facility deficiencies;

- \$3.0M - Replacement of 20+ year old non-standard leaking windows, creating mold and structure damage to Building 315 at TSL, and replacement of covered, enclosed glass walkway between Building 315 and the Building 315 Annex;
- \$4.5M - End of life laboratory equipment replacement (11 items) at TSL;
- \$1.6M – End of life laboratory equipment replacement (3-4 items) at NBACC;
- \$0.6M - Replacement of NBACC autoclave control systems;
- \$0.3M – Replace existing fume hoods at CSAC with industry standard High Efficiency Particulate Arresting (HEPA) and gas filters.

Plum Island Closure and Support– Investment Capital Investment Exhibits

Construction

(Dollars in Thousands)

	Acquisition Level	IT/ Non-IT	MAOL	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
N/A - Plum Island Closure and Support	Level 3	Non-IT	No	\$1,000	\$1,000	\$55,000

The PICS Program involves the transition, closure, and conveyance of ‘Plum Island Assets’ after the PIADC mission is fully transferred to NBAF located in Manhattan, Kansas. This multi-year effort includes planning, decontamination, regulatory compliance, and asset disposition to ensure safe and efficient closure.

The FY 2026 Budget includes \$55.0M to support these activities, with the total program cost re-baselined estimated at \$228.8M, and the new deterministic finish date is March 2031 with a potential late finish of March 2034.

Project Schedule:

Activity	Actual (A) / Estimated Schedule
Started Investigate & Delineate WMAs	FY 2021 Q4 (A)
Developed Science, Technical, Engineering and Support Package	FY 2022 Q2 (A)
Prepared Bio-Indicator Test Lab Planning Package	FY 2022 Q2 (A)
Provided procurement requisition (PR) package into system for Historical Records Management Activities	FY 2022 Q2 (A)
Provided PR Package into system for Science, Technical, Engineering and Support Package	FY 2022 Q3 (A)
Completed Building 102 Interior Surface Decontamination Planning	FY 2022 Q4 (A)
Started Validation Studies	FY 2022 Q4 (A)
Completed NEPA and NHPA Activities	FY 2023 Q2 (A)
Delivered Bio-Indicator Test Lab	FY 2023 Q2 (A)
Delivered Building 101 New Autoclaves	FY 2023 Q2 (A)
Started Building 101 New Autoclaves Installation	FY 2023 Q2 (A)

Construction and Facility Improvements – PPA**Detection Sciences Testing and Applied Research Center**

Started Utilities Planning Package	FY 2023 Q3 (A)
Award Package for Science, Technical, Engineering, and Support Package	FY 2024 Q2 (A)
Start Building 101 Decontamination Planning Package	FY 2024 Q3 (A)
Autoclaves Acceptance Testing	FY 2024 Q4 (A)
Complete Building 101 new autoclaves install and validation (including regulatory approval)	FY 2025 Q3 (A)
Start Final Closure Activities for the Remaining WMAs	FY 2025 Q3
Start Building 102 Interior Surface Decontamination (pending regulatory approval)	FY 2026 Q3
Complete Final Closure Activities for the Remaining WMAs	FY 2026 Q3
End Building 101 Decontamination Planning	FY 2027 Q1
Start Building 257 Sampling or Decontamination Plan Execution	FY 2027 Q2
Implement Elements of Utilities Re-routing Physical Work	FY 2027 Q2
Start Building 101 Physical Decontamination	FY 2027 Q2
Complete Building 102 Interior Surface Decontamination & Validation	FY 2028 Q1
Complete Building 257 Sampling or Decontamination Plan Execution	FY 2028 Q2
Complete Building 101 Decontamination & Validation	FY 2030 Q3

Department of Homeland Security

Science and Technology Directorate

Research and Development



Fiscal Year 2026

Congressional Justification

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Research and Development

Budget Comparison and Adjustments

Comparison of Budget Authority and Request

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Research, Development and Innovation	\$259,786	\$259,786	\$319,224	\$59,438
University Programs	\$51,037	\$51,037	\$7,000	(\$44,037)
Total	\$310,823	\$310,823	\$326,224	\$15,401
Subtotal Discretionary - Appropriation	\$310,823	\$310,823	\$326,224	\$15,401

The scope and diversity of the Department of Homeland Security's (DHS) missions require the Science and Technology Directorate (S&T) to address a wide range of programs supporting DHS Components' near-term needs for new operational capabilities, improved operational effectiveness, efficiency, and safety for the Homeland Security Enterprise (HSE). S&T has Research, Development, Test and Evaluation (RDT&E) responsibilities related to understanding and creating solutions for threats related to explosives, border security, cyber security, biological, chemical, and asymmetrical threats. S&T's RDT&E efforts are prioritized to the homeland's highest threats. In addition, S&T's capacity to engage Research and Development (R&D) activities worldwide is augmented by S&T's university-based Centers of Excellence (COEs) and 14 bilateral international agreements.

S&T has two Programs, Projects, and Activities (PPAs) in its R&D appropriation:

Research, Development, and Innovation (RD&I): Provides state-of-the-art technology and/or solutions to meet the needs of DHS Components and the First Responder community. RD&I includes partner-focused, near-term, and output-oriented RDT&E programs that balance risk, cost, impact, and time to delivery. S&T's enduring research supports scientific advances in collaboration with public and private sector research partners. In addition, S&T explores emerging science and technology areas and their potential threat or application to future DHS missions. S&T's research and development activities also include technology demonstrations, university and industry partnerships, technology transfer, and commercialization.

University Programs (UP): Supports critical homeland security related research and education at U.S. colleges and universities to address high-priority DHS-related issues and to enhance homeland security capabilities over the long-term generating groundbreaking ideas for new technologies and critical knowledge for the HSE.

Research and Development Summary of Budget Changes

(Dollars in Thousands)

	Positions	FTE	Amount
FY 2024 Enacted	-	-	\$310,823
FY 2025 Full-Year CR	-	-	\$310,823
FY 2026 Base Budget	-	-	-
Border Security Thrust Area	-	-	\$142,663
Chemical, Biological, and Explosive Defense Thrust Area	-	-	\$11,311
Counter Terrorist Thrust Area	-	-	\$39,305
Cyber Security / Information Analysis Thrust Area	-	-	\$20,500
First Responder / Disaster Resilience Thrust Area	-	-	\$16,659
Innovation Research and Foundational Tools Thrust Area	-	-	\$62,615
Physical Security and Critical Infrastructure Resilience Thrust Area	-	-	\$26,171
Centers of Excellence	-	-	\$7,000
Total Research and Development Projects	-	-	\$326,224
FY 2026 Request	-	-	\$326,224
FY 2025 TO FY 2026 Change	-	-	\$15,401

Research and Development Non Pay Budget Exhibits

Non-Pay by Object Class *(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$846	\$846	\$1,005	\$159
23.2 Rental Payments to Others	\$25	\$25	\$30	\$5
23.3 Communications, Utilities, & Miscellaneous	\$149	\$149	\$171	\$22
25.1 Advisory & Assistance Services	\$43,428	\$43,428	\$43,428	-
25.2 Other Services from Non-Federal Sources	\$1,604	\$1,604	\$1,787	\$183
25.3 Other Purchases of goods and services	\$5,298	\$5,298	\$5,816	\$518
25.5 Research & Development Contracts	\$208,620	\$208,620	\$265,792	\$57,172
25.7 Operation & Maintenance of Equipment	\$1,028	\$1,028	\$1,127	\$99
26.0 Supplies & Materials	\$421	\$421	\$580	\$159
31.0 Equipment	\$260	\$260	\$309	\$49
41.0 Grants, Subsidies, and Contributions	\$49,144	\$49,144	\$6,179	(\$42,965)
Total - Non Pay Budget Object Class	\$310,823	\$310,823	\$326,224	\$15,401

Research and Development
Research and Development Projects

Summary of Projects
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Border Security Thrust Area	\$70,835	\$70,835	\$142,663
Chemical, Biological, and Explosive Defense Thrust Area	\$13,840	\$13,840	\$11,311
Counter Terrorist Thrust Area	\$42,780	\$42,780	\$39,305
Cyber Security / Information Analysis Thrust Area	\$19,500	\$19,500	\$20,500
First Responder / Disaster Resilience Thrust Area	\$17,204	\$17,204	\$16,659
Innovation Research and Foundational Tools Thrust Area	\$67,345	\$67,345	\$62,615
Physical Security and Critical Infrastructure Resilience Thrust Area	\$28,282	\$28,282	\$26,171
Centers of Excellence	\$45,880	\$45,880	\$7,000
Minority Serving Institutions (MSI)	\$5,157	\$5,157	-

*Research, Development, and Innovation – PPA***Budget Comparison and Adjustments****Comparison of Budget Authority and Request***(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Border Security Thrust Area	\$70,835	\$70,835	\$142,663	\$71,828
Chemical, Biological, and Explosive Defense Thrust Area	\$13,840	\$13,840	\$11,311	(\$2,529)
Counter Terrorist Thrust Area	\$42,780	\$42,780	\$39,305	(\$3,475)
Cyber Security / Information Analysis Thrust Area	\$19,500	\$19,500	\$20,500	\$1,000
First Responder / Disaster Resilience Thrust Area	\$17,204	\$17,204	\$16,659	(\$545)
Innovation Research and Foundational Tools Thrust Area	\$67,345	\$67,345	\$62,615	(\$4,730)
Physical Security and Critical Infrastructure Resilience Thrust Area	\$28,282	\$28,282	\$26,171	(\$2,111)
Total	\$259,786	\$259,786	\$319,224	\$59,438
Subtotal Discretionary - Appropriation	\$259,786	\$259,786	\$319,224	\$59,438

PPA Level I Description

The RD&I PPA provides state-of-the-art technology and/or solutions to meet the needs of DHS's Components and the First Responder community. This PPA supports partner-focused and output-oriented RDT&E programs that balance risk, cost, impact, and time-to-delivery resulting in technology demonstrations and transfer of new capabilities to DHS Components. It includes the following Thrust Areas:

Border Security: Invests in technologies and solutions to prevent the illicit movement and illegal entry or exit of people, weapons, dangerous goods, and contraband, and manage the risk posed by people and goods in transit.

Chemical, Biological, and Explosive (CBE) Defense: Funds R&D in technologies and solutions to support development of prevention and protective strategies and coordinated surveillance and detection to address CBE threats.

Counter Terrorist: Invests in technologies, methods, and procedures to counter terrorism.

Cyber Security / Information Analysis: Conducts and supports RDT&E and the transition of advanced cybersecurity and information assurance technologies to secure the Nation's current and future cyber and critical infrastructures.

First Responder / Disaster Resilience: Invests in technologies and solutions, which reduce vulnerability of key leadership, critical infrastructure, and events from terrorist attacks and other hazards. It increases the level of preparedness of State, local, regional, tribal, territorial partners, non-governmental organizations, private sector, and public, while improving the capabilities of DHS to lead in emergency management.

Innovative Research and Foundational Tools: Identifies gaps through analysis and requirements prioritization and focuses on identifying and analyzing potential solutions while working with partners to select the best approach to delivering solutions, including knowledge and advice.

Physical Security and Critical Infrastructure Resilience: Focuses R&D technologies, methods, and procedures to enhance the physical security of the Nation's critical infrastructure which includes the Nation's air travel system, mass transportation systems, and schools as well as soft targets such as mass public gatherings.

Research, Development, and Innovation – PPA
Summary of Budget Changes
(Dollars in Thousands)

	Positions	FTE	Amount
FY 2024 Enacted	-	-	\$259,786
FY 2025 Full-Year CR	-	-	\$259,786
FY 2026 Base Budget	-	-	-
Border Security Thrust Area	-	-	\$142,663
Chemical, Biological, and Explosive Defense Thrust Area	-	-	\$11,311
Counter Terrorist Thrust Area	-	-	\$39,305
Cyber Security / Information Analysis Thrust Area	-	-	\$20,500
First Responder / Disaster Resilience Thrust Area	-	-	\$16,659
Innovation Research and Foundational Tools Thrust Area	-	-	\$62,615
Physical Security and Critical Infrastructure Resilience Thrust Area	-	-	\$26,171
Total Research and Development Projects	-	-	\$319,224
FY 2026 Request	-	-	\$319,224
FY 2025 TO FY 2026 Change	-	-	\$59,438

Research, Development, and Innovation – PPA

Non Pay Budget Exhibits

Non Pay by Object Class

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$839	\$839	\$1,005	\$166
23.2 Rental Payments to Others	\$25	\$25	\$30	\$5
23.3 Communications, Utilities, & Miscellaneous	\$149	\$149	\$171	\$22
25.1 Advisory & Assistance Services	\$43,232	\$43,232	\$43,428	\$196
25.2 Other Services from Non-Federal Sources	\$1,604	\$1,604	\$1,787	\$183
25.3 Other Purchases of goods and services	\$4,175	\$4,175	\$4,693	\$518
25.5 Research & Development Contracts	\$207,358	\$207,358	\$265,307	\$57,949
25.7 Operation & Maintenance of Equipment	\$1,028	\$1,028	\$1,127	\$99
26.0 Supplies & Materials	\$421	\$421	\$580	\$159
31.0 Equipment	\$247	\$247	\$296	\$49
41.0 Grants, Subsidies, and Contributions	\$708	\$708	\$800	\$92
Total - Non Pay Budget Object Class	\$259,786	\$259,786	\$319,224	\$59,438

Research and Development Research and Development Projects

Summary of Projects

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Border Security Thrust Area	\$70,835	\$70,835	\$142,663
Chemical, Biological, and Explosive Defense Thrust Area	\$13,840	\$13,840	\$11,311
Counter Terrorist Thrust Area	\$42,780	\$42,780	\$39,305
Cyber Security / Information Analysis Thrust Area	\$19,500	\$19,500	\$20,500
First Responder / Disaster Resilience Thrust Area	\$17,204	\$17,204	\$16,659
Innovation Research and Foundational Tools Thrust Area	\$67,345	\$67,345	\$62,615
Physical Security and Critical Infrastructure Resilience Thrust Area	\$28,282	\$28,282	\$26,171

Border Security Thrust Area
Research and Development
Technology Readiness Level Exhibit
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Border Security Thrust Area	\$70,835	\$70,835	\$142,663

R&D Thrust Area Description

BORDER SECURITY THRUST AREA: DHS secures the borders, territorial waters, ports, terminals, waterways, and air, land, and sea transportation systems of the United States. S&T invests in border security research and development for technologies and solutions to prevent illicit movement and illegal entry or exit of people, weapons, dangerous goods, and contraband, and manage risks posed by people and goods in transit. The table that follows shows initiatives and funding levels for FY 2026 in this area.

BORDER SECURITY THRUST AREA <i>(Dollars in Thousands)</i>				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Air, Land and Port of Entry (POE) Security		\$21,467	\$21,467	\$29,697
	Air Security	\$14,000	\$14,000	\$14,530
	Enhanced Trade Technologies	\$1,500	\$1,500	\$1,200
	Ground Based Technologies	\$5,967	\$5,967	\$5,967
	POE Security	-	-	\$8,000
Biometrics and Identity Management		\$2,155	\$2,155	\$4,080
	Biometrics and Identity Screening	\$2,155	\$2,155	\$1,500
	Biometric Emerging Concepts	-	-	\$2,580
Counter Unmanned Aircraft Systems (C-UAS)		\$19,997	\$19,997	\$48,397
	Counter UAS	\$19,997	\$19,997	\$19,997

BORDER SECURITY THRUST AREA <i>(Dollars in Thousands)</i>				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
	2026 World Cup & America250 Support	-	-	\$28,400
Forensics and Criminal Investigations		\$7,600	\$7,600	\$28,246
	Combatting Fentanyl/Opioid Abuse	-	-	\$11,446
	Countering Child Sexual Exploitation and Abuse	-	-	\$9,200
	Digital Forensics	\$3,800	\$3,800	\$3,800
	Illegal Immigration Investigations	\$1,000	\$1,000	\$1,000
	Transnational Criminal Organizations (formerly Transnational Organized Crime and Counter Networks)	\$2,800	\$2,800	\$2,800
Immigration Services		\$3,993	\$3,993	\$6,993
	Immigration-Based Technologies	\$3,993	\$3,993	\$3,993
	Immigration Policy Research and Analytics	-	-	\$3,000
Maritime Safety & Security		\$15,623	\$15,623	\$25,250
	Multi-Domain Information Sharing (MDIS) (formerly Integrated Multi-Domain Enterprise (IMDE))	\$3,123	\$3,123	-
	Port and Coastal Surveillance	\$1,500	\$1,500	-
	Remote Maritime Technologies	\$11,000	\$11,000	-
	Coastal, Port and Waterway Security (formerly Port and Waterway Resiliency)	-	-	\$2,000
	Enhanced Maritime Characterization (formerly Port and Coastal Surveillance)	-	-	\$10,500
	Maritime Analytics and All Domain Sensors	-	-	\$7,500
	Maritime Location, Communication & Emergency Management	-	-	\$5,250
Total – Border Security Thrust		\$70,835	\$70,835	\$142,663

Air, Land and Port of Entry (POE) Security – This program develops and transitions technical capabilities that strengthen the security of our national airspace and land border by detecting and preventing the flow illicit goods and people through the land and air domain while facilitating and safeguarding lawful trade and travel through the ports of entry.

- **Air Security:** Advances the development of vital innovative and evolving aerospace technologies, such as UAS, intelligence, surveillance, and reconnaissance sensors, air domain awareness, UAS Traffic Management (UTM), small-UAS technologies, and commercial satellite technology critical to support HSE border operations. Additionally, funds will support DHS Components to include U.S. Customs and Border Protection (CBP), United States Coast Guard (USCG), Immigration and Customs Enforcement (ICE), and Federal Emergency Management Agency (FEMA) with mission-critical air security tools needed for enhanced detection, classification, and tracking of illicit activities; augment emergency response capabilities; and improve resiliency and systems interoperability.
- **Enhanced Trade Technologies:** Targets international trade violators, high risk shipments, counterfeit, unsafe, and fraudulent goods, as well as goods made using forced labor, which specifically tie to CBP's concern of long wait times for cargo processing and delivery to market. Impacts include: (1) expedited processing of legitimate commerce that benefit American markets, (2) enhanced ability to protect American consumers by targeting illegal or fraudulent cargo, (3) enhanced ability to efficiently collect duties, taxes, and tariffs, (4) improved ability to enforce U.S. trade law, and (5) detection of forced labor products entering American trade flows.
- **Ground Based Technologies:** Develops, test, and evaluate technologies designed to enhance the detection, identification, classification, and tracking of illicit activity for CBP in remote areas of the U.S. land border; assist USSS in evaluating changes in threats and potential countermeasures to current and emergent technologies, methods, and tactics, techniques and procedures (TTPs); enable improved asset use and informed resource requests to assist CBP in tactical deployment of existing assets; and test, validate, and transition products to assist ICE in locating and investigating criminal suspects.
- **POE Security:** Improves the current CBP inspection technologies of people and goods. Improved image quality, increased threat detection, greater predictive analytical capabilities, and higher efficiency practices will expedite contraband detection and ease legitimate trade and travel processing times while bolstering CBP workforce support. As POE detection solutions continue to mature, additional resources ensure the efficient transition of screening technologies that enhance operational capabilities at ports of entry to facilitate lawful trade and travel and detect and interdict illicit contraband to ensure the safety of U.S. citizens.

Biometrics and Identity Management Program – This program currently consists of two separate projects: (1) Biometric and Identity Screening and (2) Biometric Emerging Concepts. The S&T Biometric and Identity Screening Project activities increase the Nation's security at POEs while expediting legitimate travel and improving passengers' experience. The S&T Biometric Emerging Concept Project leverages S&T's full matrix of services to pursue research, development, test, and evaluation of emerging biometric capability.

- **Biometrics and Identity Screening:** Applies RDT&E to determine how DHS Components can effectively use biometric technology to rapidly verify or identify individuals, as well as verify familial relationships (i.e., rapid DNA). Impacts include (1) enhanced traveler identification validation; (2) improved ability to detect terrorists, criminals, and dangerous individuals; (3) streamlined, scalable, and cost-effective security, screening, and inspection operations; (4) reduced technical risk in DHS acquisition of secure, interoperable, enterprise solutions, (5) improved DHS staffing efficiency, (6) improved ability to verify familial relationships; and (7) improved traveler throughput and satisfaction.

- **Biometric Emerging Concepts:** Performs analyses, conduct experiments, demonstrations, and challenge problems with industry and academia, proof of concepts, and prototypes in the exploration of future identity capabilities. This work will help DHS operational components to evaluate and understand the feasibility of new and emerging operational capabilities that could support the DHS “Identity” enterprise and inform future acquisition. The S&T research conducted under each activity is essential to inform the DHS about the possibilities for new or novel capabilities.
- **Counter UAS (C-UAS):** Ensures safe integration and testing of C-UAS capabilities in national airspace in accordance with 6 U.S.C 124n, assist DHS Components to include Federal Protective Service (FPS), CBP, USCG, USSS, and the TSA in defending the Nation from current S-UAS threats, and RDT&E of new and emerging technologies to address DHS Component requirements for countering S-UAS threats.
- **2026 World Cup & America250 Support:** Provides C-UAS support to the eleven locations in 2026 for the World Cup and America’s Semiquincentennial anniversary celebration events, America250. Overall, the funding will address: (1) Defense Chain Effectiveness, 2) Interoperability and Operational Coordination, 3) Deployment and Interagency Coordination, and 4) New and Emerging CUAS Technologies and Systems Engineering. On July 4, 2026, our nation will commemorate and celebrate the 250th anniversary of the signing of the Declaration of Independence with the largest and most inclusive anniversary observance in our nation’s history.

Forensic and Criminal Investigations Program – Assists DHS and other law enforcement partners with research and development of tools and technologies that can be applied across multiple mission and application areas for Federal, State, and local law enforcement. It is imperative for DHS and other law enforcement partners to have the necessary investigative tools to automatically recognize, collect, ingest, process, analyze, and share information to disrupt and dismantle criminal activity quickly and to safeguard our citizens and the Nation from threats.

- **Combatting Fentanyl/Opioid Abuse:** Develops detection technologies, analytic capabilities, and tools to aid investigators in collection and analysis of evidentiary data to identify, dismantle, and prosecute criminal drug distribution networks and supply chains. It will also transition and implement developed capabilities into operational environments to support Component efforts transnational criminal organizations.
- **Countering Child Sexual Exploitation and Abuse:** Supports technologies that will combat child sexual exploitation and human trafficking which is a DHS Secretary and Administration priority. S&T will focus on advanced digital forensics and investigative sciences to expeditiously investigate cases and rescue victims.
- **Digital Forensics:** Provides research & development of digital forensics tools to fill high priority gaps for DHS law enforcement operations. Specifically, S&T will focus research on digital analytic automation to provide tools that will drastically reduce the amount of time it takes an analyst to conclude a case. In addition, funds will further develop, assess, and integrate innovative digital forensics tools for forensic law enforcement applications.
- **Illegal Immigration Investigations:** Integrates an on-demand forecasting model that incorporates policy-driven and external data sets to inform resource requirements and leadership decision making processes within ICE’s Enforcement and Removal Operations (ERO). This request will

support continuous development and implementation of technology that will support analyses and predictive models to answer operational questions at ICE ERO.

- **Transnational Criminal Organizations (formerly Transnational Organized Crime and Counter Networks):** Enables DHS to leverage new forensic tools that take advantage of data sharing capabilities that encourage a unified approach to combat global TOC. These new forensic tools and data sharing capabilities will close the operational gap using a central data hosting, analytics, and collaboration platform where agents can access new vital forensic that utilize AI/ML and share discoveries, theories, and analysis.

Immigration Services Program – This program develops technologies and delivers research support for DHS immigration-focused Components in their missions to administer the nation’s lawful immigration system and enforce immigration laws through project areas that focus on immigration-based technologies for streamlining immigration case processing, enhancing efficient and effective immigration enforcement, and combatting immigration fraud and abuse, as well as research and analysis support for managing migration and informing the Department’s resource and policy planning in the midst of a changing immigration landscape.

- **Immigration-Based Technologies** Provides technology and knowledge products that enhance the efficiency and integrity of immigration services and activities. In addition, funding will be used to develop a comprehensive process and technology map that identifies all automated screening and vetting capabilities across DHS, to include the identification of system interdependencies and limitations (i.e., transfers from CBP to ICE, and integration with ICE ERO).
- **Immigration Policy Research and Analytics** Provides research and analytical capabilities to support analysis, resource allocation, and decision-making capacity of the DHS’s immigration-focused Components. The creation of statistical models to identify migration drivers with forecasting capabilities will provide DHS both short and long term operational, policy, and legal planning. This capacity will also afford enhanced ability to respond effectively to migrant surges (e.g., during natural disasters, regional instabilities, etc.), upgrade Component resource allocation to support operational needs, and improve migrant processing to efficiently direct individuals through appropriate immigration channels.

Maritime Safety and Security Program – This program develops and transitions technical capabilities that enhance U.S. maritime border security by safeguarding lawful trade and travel, helps to prevent illegal use of the maritime environment to transport illicit goods or people and enhance safety and resilience of the maritime transportation system.

- **Coastal, Port and Waterway Security (formerly Port and Waterway Resiliency):** Conducts research and development into less-lethal vessel stopping capabilities to interdict noncompliant vessels and unmanned systems entering restricted areas or otherwise engaged in illegal activity. Additionally, S&T will develop a modeling environment analyzing sensor laydowns and maritime domain awareness and support maritime safety, security, and law enforcement operations.

- **Enhanced Maritime Characterization (formerly Port and Coastal Surveillance):** In support of Wide Area Maritime Surveillance and Dark Vessel detection, this project expects to provide sensor and surveillance enhancements that will increase geographic coverage, enable, or enhance subsurface sensing, increase the quality of information to enable vessel and behavior recognition and identification, provide real-time recognition of both compliant and non-compliant vessels, and assist with identifying and prioritizing threats across the full spectrum of security, law enforcement, stewardship, and safety missions.
- **Maritime Analytics and All Domain Sensors:** Develops capabilities that provide: 1) identification of behaviors and patterns previously obscured and undetected within massive data streams, 2) increased detection of suspect activities through the delivery of new data sources, 3) reduction in repetitive, mundane, time consuming workload for analysts and operators through automation of tasks and data analysis, 4) improved rates of successful interdiction, and 5) increased amount of time analysts and operators have to make decisions through earlier identification of behaviors from automated analytics.
- **Maritime Location, Communication & Emergency Management:** Planned activities within this project addresses critical USCG capability needs for search and rescue (SAR) as well as other safety and security missions in the Arctic. Capabilities will significantly increase the USCG's ability to successfully respond to SAR situations and improve command and control of resources throughout the maritime domain. Increased effectiveness in these missions will enable the safe flow of commerce, safety of navigation, protection of strategic interests, and saving of lives for those who become imperiled.

Chemical, Biological, and Explosive (CBE) Defense Thrust Area**Research and Development****Technology Readiness Level Exhibit***(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Chemical, Biological, and Explosive Defense Thrust Area	\$13,840	\$13,840	\$11,311

R&D Thrust Area Description

CBE DEFENSE THRUST AREA: R&D investments support prevention and protective strategies, as well as the coordinated surveillance and detection of CBE threats. S&T's R&D includes prevention of terrorism, reduction of vulnerability of critical infrastructure from terrorist attacks and other hazards, and prevention of the illicit movement and illegal entry or exit of people, weapons, dangerous goods, and contraband by providing technology, methods, and procedures to detect CBE threats.

CHEMICAL, BIOLOGICAL, AND EXPLOSIVE DEFENSE THRUST AREA <i>(Dollars in Thousands)</i>				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Chemical, Biological, and Explosive Defense		\$12,335	\$12,335	\$5,011
	Chem-Bio Threat Surveillance & Detection	\$2,850	\$2,850	-
	Agriculture Screening and Surveillance (formerly Food, Agriculture and Veterinary Defense (FAV-D)	\$7,325	\$7,325	\$5,011
	Urban Security Initiative	\$2,160	\$2,160	-
Detection Canine		\$6,300	\$6,300	\$6,300
	Detection Canine	\$6,300	\$6,300	\$6,300
Opioid/Fentanyl Detection		\$1,200	\$1,200	-
	Opioid/Fentanyl Detection	\$1,200	\$1,200	-
Total – CBE Defense Thrust		\$19,835	\$19,835	\$11,311

Chem-Bio Detection and Defense Program – This program conducts research to assess, prevent, detect, prepare for, respond to, and recover from incidents involving chemical and biological threats and hazards. This program supports DHS, its Components Partners, and the HSE with risk-awareness, knowledge products, and technical solutions needed to protect the Nation from incidents involving chemical and biological hazards by executing and enhancing a portfolio of capabilities and supporting activities to counter chemical and biological threats.

- **Chem-Bio Threat Surveillance:** The FY 2026 Budget does not include funding for this project.
- **Agriculture Screening and Surveillance (formerly Food, Agriculture and Veterinary Defense (FAV-D)):** Addresses threats affecting the food and agriculture sector, which accounts for 20 percent of the national economy. This project will deliver effective prevention, detection, and recovery tools to reduce impacts from the intentional or natural introduction of high-consequence threat agents and catastrophic events affecting the food and agriculture industry and the health and economic security of the U.S. efforts include accelerating the development of advanced agricultural screening technologies, including plant pathogens and invasive species, for CBP and next-generation countermeasures for the highest-priority transboundary animal diseases enabling DHS and agricultural industry partners to effectively detect, respond to, and recover from sector disruptions.
- **Urban Security Initiative:** The FY 2026 Budget does not include funding for this project.

Detection Canine Program – This program conducts research to provide the tools, techniques, and knowledge to inform and improve operational proficiency of the domestic detection canine. The program’s scope spans the entirety of the HSE, including DHS Components, and State, local, tribal, and territorial (SLTT) agencies that utilize detection canines across all threats.

- **Detection Canine:** Execute ongoing research efforts into Detection Canine genetics, breeding, olfaction, behavior, training, physiology, and metrology, as well as development of training tools to establish domestic capacity for explosives, narcotic, and other detections. This project will deliver odor generalization studies to reduce training burdens, field assessments to validate operational strengths and limitations of the mobile canine sensing platform, and a pilot breeding consortium effort to improve the supply of domestic working dogs in support of CBP, FPS, TSA, and SLTT law enforcement agencies.

Opioid/Fentanyl Detection Program – This program provides DHS Components and law enforcement partners with advanced, operationally effective detection and investigation capabilities to enable interdiction of opioids, and other narcotics, being trafficked across U.S. borders without disrupting the flow of legitimate commerce, as well as aid in the collection and analysis of complex evidence for interdiction of opioids, and other narcotics, being trafficked across U.S. borders without disrupting the flow of legitimate commerce, as well as aid in the collection and analysis of complex evidence. The work executed within this program has been realigned to the Forensics and Criminal Investigations Program.

- **Opioid/Fentanyl Detection:** This project has been realigned to the Countering Fentanyl/Opioid abuse project within the Forensics and Criminal Investigations Program. The FY 2026 Budget does not provide funding for this project.

Counter Terrorist Thrust Area
Research and Development

Technology Readiness Level Exhibit
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Counter Terrorist Thrust Area	\$42,780	\$42,780	\$39,305

R&D Thrust Area Description

COUNTER TERRORIST THRUST AREA: S&T invests in the R&D technologies, methods, and procedures to counter terrorists. Efforts include R&D to identify individuals or groups that intend to conduct terrorist attacks and/or illicitly move weapons, dangerous goods, and contraband. It also includes providing threat assessments of high-consequence attack methods such as CBE that terrorists may use to attack the Nation.

COUNTER TERRORIST THRUST AREA (Dollars in Thousands)				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Emerging Technologies		-	-	-
	Emerging Technologies	-	-	-
Explosives Threat Assessment		\$7,824	\$7,824	\$9,064
	Aircraft Vulnerability	\$3,360	\$3,360	\$1,500
	Explosives Characterizations (formerly Homemade Explosives Identification, Detection and Mitigation (HEID&M))	-	-	\$2,100
	Explosives Risk Assessment	-	-	\$1,000
	Technology Explosives Assessment	\$4,464	\$4,464	\$4,464
Probabilistic Analysis of National Threats, Hazards and Risks (PANTHR)		\$33,961	\$33,961	\$30,241
	Agricultural Threat Characterization (AgTC)	\$500	\$500	\$500
	Biological Threat Characterization (BTC)	\$19,691	\$19,691	\$16,796
	Chemical Threat Characterization (CTC)	\$4,393	\$4,393	\$4,393
	Hazard Knowledge Center (HKC) (formerly Biodefense Knowledge Center)	\$400	\$400	\$400
	Tools for Integrated Evaluation of Risk (TIGER)	\$8,977	\$8,977	\$8,152
Total – Counter Terrorist Thrust		\$41,785	\$41,785	\$39,305

Emerging Technologies – This program provides S&T with a process for identifying, contextualizing, and prioritizing emerging risks and technical expertise that helps the DHS Secretary, Components, and S&T identify mitigation, exploitation, and response.

- **Emerging Technologies:** The FY 2026 Budget does not include funding for this project.

Explosives Threat Assessment Program – This program researches and identifies current and potential explosive threats to understand the risk posed to the U.S., strengthens aviation security by bolstering the international aviation security system, improves security processes and technologies, and encourages partnerships with industry. It encompasses risk-based threat characterization, attribution, strategic planning, prediction of magnitude of explosive disasters, and analytical technologies, strategies, and procedures.

- **Aircraft Vulnerability:** Research and analyzes commercial aircraft to determine the potential for catastrophic structural failure from different explosive threats while in flight. This project will conduct live-fire explosives test and evaluation research to further develop, refine, and report commercial aircraft (aluminum and composite fuselage) vulnerability assessments; provide rapid response explosives testing capabilities for new and emerging threats; develop and validate high fidelity modeling, simulation, and fast-running empirical engineering analysis tools for blast responses of aircraft; and complete development and maintenance of an aircraft vulnerability explosives tests database housing 35+ years of aircraft vulnerability test data.
- **Explosives Characterizations (formerly Homemade Explosives Identification, Detection and Mitigation (HEID&M):** Addresses threats posed by homemade explosives (HME) and emerging explosives threats to support the development of new screening capabilities and decision support tools essential to the mission of key DHS Components including CBP, USSS, TSA, and CISA, as well as SLTT law enforcement. This project will characterize the physical and chemical properties of explosives threats and complete vulnerability assessments that enables responsive solutions to counter the threat more efficiently and safely. This project will also complete performance data collection for materials included in TSA's upcoming 8.0 detection standards.
- **Explosives Risk Assessment:** Maintains the Explosives Risk Assessment (ExRA) tool, a computational end-to-end risk analysis capability to understand explosives risk results of various operational scenarios. With current funding levels, the project will deliver full risk reports to DHS Components in FY 2027 and initiate integration of the ExRA model with the previously developed Homemade Explosives Consequence Analysis Tool (HExCAT), Commercial Aircraft Vulnerability Mitigation Model (CAVMM), and Vulnerability Assessment and Protection Option (VAPO). Outputs enable detection programs, DHS Components, and local law enforcement to prioritize explosives threat, distribute resources, develop mitigation plans, and employ detection technologies customized for their operational scenarios.
- **Technology Explosives Assessment:** Addresses core laboratory capability to characterize emerging threats quickly and accurately and to develop cost-effective tools and test and evaluation methods appropriate to analyze threats with modern screening technologies development. This project will develop synthetic image data and validation methods for machine learning algorithms; develop drug detection methods and test articles; expand scale-up procedures for HME materials; develop new simulants for millimeter wave (MMW) and x-ray technologies; and conduct test and evaluation activities in support of the HSE.

Probabilistic Analysis of National Threats, Hazards, and Risks (PANTHR) Program – This program addresses biological, chemical and hazard knowledge gaps to inform defensive strategies that provide accurate, useful, and defensible knowledge and tools to stakeholders to enable risk-informed decision-making pertinent for defense against weapons of mass destruction threats to the Homeland. The program will execute CBRN risk analysis capabilities to support national assessments, characterize biological and chemical hazards to support HSE biological and chemical defense, and coordinate hazard awareness and characterization activities across S&T, DHS Components, and the HSE.

- **Agricultural Threat Characterization (AgTC):** Enables the execution of characterization research to fill critical knowledge gaps on agricultural hazards and support sector risk assessments. This project will generate scientific data and knowledge products for the top traditional, emerging, and advanced threats facing U.S. agriculture. AgTC will improve the preparedness of the USG for agricultural defense by characterizing hazards to the U.S. identified by PANTHR's Food and Agricultural Sector Risk Analytic Capability (FASRAC) which is mandated by *National Security Memorandum 16 (NSM-16)* and providing scientific data and knowledge products to stakeholders across the HSE and U.S. interagency to inform threat assessment, hazard modeling, and policy development.
- **Biological Threat Characterization (BTC):** Enables the execution of characterization research at the National Biodefense Analysis and Countermeasure Center (NBACC), National Laboratories, and by industry partners to fill critical knowledge gaps on biological hazards and support enduring biological risk assessments. BTC provides the scientific data generated to various stakeholders across the HSE to inform an array of activities such as hazard modeling for operational planning, medical countermeasure development, and policy development to improve the USG biodefense preparedness. The project will transition at least seven knowledge products resulting from biological threat agent studies to DHS Components and the biodefense community.
- **Chemical Threat Characterization (CTC):** Provides support to the Chemical Security Analysis Center's (CSAC) core capabilities to enable 24/7 response and technical assistance to the HSE, including modeling and simulation, characterization of current and emerging chemical threats, threat scenario planning support to Federal and SLTT agencies, chemical threat knowledge tools that support Components as well as the HSE, and chemical security laboratory experimentation for DHS priorities. This project will generate and provide scientific data to inform an array of activities such as hazard modeling for operational planning, medical countermeasure development, chemical threat detection and interdiction, safety and security of the Nation's food supply, and policy development that greatly improves the USG's preparedness and chemical defense capabilities.
- **Hazard Knowledge Center (HKC) (formerly Biodefense Knowledge Center):** Provides Hazard Knowledge Management System (HKMS) cloud capability across For Official Use Only and Top-Secret classification levels. The Budget will provide funding to host risk applications from existing PANTHR projects and to support the administrative costs to build, host, and maintain the HKMS environments.
- **Tools for Integrated Evaluation of Risk (TIGER):** Enables the execution of the annual CBRN and food and agriculture sector risk analyses and expanding capabilities to address emerging and evolving threats. This project will advance risk analysis approaches and capabilities to other mission areas and threats, such as the Food and Agricultural Sector, Biotechnological threats, the U.S. Bioeconomy, and Explosive threats, and enable deployment in the cloud environment. The risk and tailored assessment capabilities generated from TIGER are required by, and provided to, various stakeholders (e.g., DHS Components, HHS, DoD) to better enable and inform an array of activities such as operational and response planning, medical countermeasure development and acquisition, research and development, and policy.

Cyber Security/Information Analysis R&D Thrust Area

Research and Development

Technology Readiness Level Exhibit

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Cyber Security / Information Analysis Thrust Area	\$19,500	\$19,500	\$20,500

R&D Thrust Area Description

CYBER SECURITY / INFORMATION ANALYSIS R&D THRUST AREA: Conducts and supports RDT&E and transition of advanced cybersecurity and information assurance technologies which secure the Nation's current and future cyber and critical infrastructures. These solutions include user identity and data privacy technologies, end system security, law enforcement forensic capabilities, secure protocols, and software assurance.

CYBER SECURITY / INFORMATION ANALYSIS THRUST AREA <i>(Dollars in Thousands)</i>				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Cybersecurity Program (formerly Information Analytics)		\$19,500	\$19,500	\$20,500
	Cyber Data Analytics	\$19,000	\$19,000	\$19,500
	Cybersecurity for Law Enforcement	\$500	\$500	\$1,000
Total – Cyber Security / Information Analysis Thrust		\$19,500	\$19,500	\$20,500

Cybersecurity Program– This program conducts research, analysis, and development of technologies to strengthen defensive cybersecurity capabilities in a spectrum of strategic technical areas to mitigate risk to the Nation's critical infrastructure, Federal government, as well as State, local, tribal, and territorial organizations. The increasing reliance on complex data, technology, communication, and interconnectivity has changed and expanded vulnerabilities and increased the potential risk to governmental, citizen services, and critical infrastructure continuity.

- **Cyber Data Analytics:** Continues critical research in computational analytics and information sharing to improve homeland security cyber-physical security risk analysis across government, the sixteen Critical Infrastructure Sectors, and fifty-five National Critical Functions. This project will invest in new computation and automation technologies that will accelerate effective integration of efficient data into next generation architectures for CISA. Activities will focus on maturing and delivering data analytics, like machine learning (ML) and artificial intelligence (AI)

technologies, improving real-time network defense, and delivering capability advances in risk analysis for assessing and mitigating cybersecurity risks in defense of Federal networks and the Nation's critical infrastructure.

- **Cybersecurity for Law Enforcement:** Continues research, analysis, and development of new technologies, capabilities, and standards to assist law enforcement in training, prevention against cyber-attacks, cyber-crime investigations, and the forensic analysis of technologies used in criminal activity. This project will evaluate current technologies, develop and test procedural designs and practices to provide options for secure open-source software supply chain validation; develop low-to-no cost exportable cyber forensics tools and process training; and enhance capabilities to mitigate current and expected cyber-physical threats against vehicles used in DHS Component law enforcement protective missions.

First Responder/Disaster Resilience Thrust Area

Research and Development

Technology Readiness Level Exhibit

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
First Responder / Disaster Resilience Thrust Area	\$17,204	\$17,204	\$16,659

R&D Thrust Area Description

FIRST RESPONDER / DISASTER RESILIENCE THRUST AREA: Work includes reducing vulnerability of critical infrastructure to terrorist attacks and other hazards; working with SLTT governments to secure their information systems; working with local and regional partners to identify hazards, assess vulnerabilities, and develop strategies to manage risks associated with all hazards; increasing the level of preparedness of SLTT partners, as well as nongovernmental organizations, the private sector, and the general public; advancing and improving disaster emergency and interoperable communications capabilities; and improving capabilities of DHS and its Components to lead in emergency management.

FIRST RESPONDER / DISASTER RESILIENCE THRUST AREA (Dollars in Thousands)				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Integrated Disaster Resilience (formerly Community and Infrastructure Resilience)		\$5,885	\$5,885	\$5,750
	Community Resilience Testbeds	\$2,500	\$2,500	\$2,100
	Disaster Recovery	\$1,885	\$1,885	\$1,150
	Flood	\$1,000	\$1,000	\$1,300
	Next Generation Disaster Proofing	\$500	\$500	\$1,200
First Responder Capability		\$11,319	\$11,319	10,909
	Explosives & Radiological/Nuclear Resiliency	\$909	\$909	\$909
	First Responder Technologies	\$5,000	\$5,000	\$5,000
	Personal Protective Equipment (formerly Compact Personal Protective Equipment)	\$1,500	\$1,500	\$1,500
	Public Safety Communications	\$1,500	\$1,500	-
	Response and Defeat Operations Support (REDOPS)	\$1,500	\$1,500	\$1,500
	Training and Performance Optimization	\$910	\$910	\$2,000
Total –First Responder / Disaster Resiliency Thrust		\$17,204	\$17,204	\$16,659

Integrated Disaster Resilience Program (IDR) – This program conducts research in new and emerging technologies to streamline and optimize disaster and critical infrastructure resilience investments in incident response, insurance, mitigation, recovery operations, and assistance programs, along with enabling SLTT and private sector involvement. Additionally, the IDR Program conducts R&D supporting the development of standards and best practices to improve and enhance information-sharing capabilities on behalf of FEMA and CISA.

- **Community Resilience Testbeds:** Provides testbed environments which enable critical experimentation, evaluation, and validation of emerging technologies for disaster resilience and recovery operations. This project supports the transition of future R&D outputs to DHS and its external stakeholders including high risk areas and assisting DHS with updating related policy, doctrine, operations, and training plans. This effort serves as a proving ground for enhanced cooperation between Federal, State, local, and private sector to spur innovation and ensure new technologies and approaches work and are implementable.

- **Disaster Recovery:** Sustains demonstrations of tools to advance tactical search, rescue, and response management thereby increasing capabilities for incident-based efforts, and the advancement of risk assessment tools supporting disaster resilience planning. Activities will also focus on enabling DHS, SLTT agencies, and private sector to track and monitor post-disaster resilience investments, rebuild efforts, and restoration functions through improved damage assessment and decision making, expediting recovery operations to restore critical functions and community lifelines. Results from this research will create new processes, products, and standards to improve operations and outcomes, including promoting national resilience, implementing protective measures, and preparing for catastrophic disasters.
- **Flood:** Advances remote sensing through multi-modal imaging, exploit historical satellite imagery, and evaluate emerging digital elevation modeling technologies to improve the definition and accuracy of flood hazard areas. Efforts will also focus on improving flood data quality, predictive models, and analytical tools to empower decision-makers with capabilities to enable both pre-event scenario-based risk planning and adaptive recovery in the post-event environment. This research provides solutions to the needs of Federal, SLTT, and other stakeholder groups in making planning, disaster response and recovery, and investment decisions related to floods.
- **Next Generation Disaster Proofing:** Targets research and development for new approaches to optimizing resilience investment to reduce disaster risk and losses, measure community resilience and monitor effectiveness over time, and new technologies and novel materials solutions supporting structural protection for future disaster events. The result of this research will support R&D projects that pursue new/emerging technologies that reduce damages to structures, public assets, and infrastructure.

First Responder Capability Program – This program develops technologies, information, procedures, and CONOPS to aid first responders, emergency managers, and incident commanders as they respond to hazardous situations. It assists emergency response communities to establish requirements and tests and assesses technologies for usability to help make them available across all first responder communities.

- **Explosives & Radiological/Nuclear Resiliency:** Expands modeling products provided through the Interagency Modeling and Atmospheric Assessment Center (IMAAC) to FSLTT jurisdictions; automate and streamline radiological data management (e.g. data validation and verification (V&V) processes); provide guidance to DHS and SLTT first responders on how to best respond during radiation emergencies; identify best practices for emergency preparedness programs for new nuclear power technology; develop planning and response tools to assist the emergency medical response community; provide guidance to help recovery organizations execute strategies for long-term recovery; and improve the ability for FSLTT leaders to make lifesaving protective action decisions during the early-phase of a radiological or nuclear incident.
- **First Responder Technologies:** Develops prototype solutions to new and emergent threats and hazards, as well as conduct operational field assessments and experimentation of next generation technologies. This project will support high priority needs identified by DHS and SLTT law enforcement agencies, including but not limited to non-lethal technologies for stopping vehicles and watercraft, common operating pictures, and emergency response robotics and drones. Funding will support completion of prototypes for two new first responder technology development activities and two or more design reviews of technologies that strengthen DHS' ability to protect the homeland.

- **Personal Protective Equipment (formerly Compact Personal Protective Equipment):** Develops solutions to address critical PPE capability gaps. This project will develop new technologies, such as physiological monitoring, chemical and biological wearable sensors, and novel uniform materials, to enhance officer safety and support effective emergency response in active threat incidents, contagious environments, daily usage, unusual occurrences, and other hazardous situations.
- **Public Safety Communications:** The FY 2026 Budget does not include funding for this project.
- **Response and Defeat Operations Support (REDOPS):** Funding supports assessing Counter Improvised Explosive Devices (C-IED) technologies; development of new tools and/or tactics, techniques, and procedures to counter evolving threats; and transition of work products to bomb technicians across the country. This project conducts R&D to close capability gaps associated with the tactics used by terrorists and criminals in IED attacks. In FY 2026, REDOPS plans to publish two Special Technician Bulletins, conduct five testbed assessments, publish four micro-R&D tools, deliver four Advanced Disablement Engineering and Transition Seminars, and develop and test two IED render safe technologies.
- **Training and Performance Optimization:** The funding for this project will develop, assess, and transition immersive training and operations methods and tools for the Federal Law Enforcement Training Centers (FLETC), DHS Training Academies, and Component Training Offices in support of DHS Components and other first responders on the front line of homeland security. This project will deliver modern training, including immersive technologies, artificial intelligence, and game-based learning, that maximize skill sustainment and operational performance. Funds will also support research and studies, in support of FLETC, on emerging homeland security threats and methods for affordable and scalable training tools for law enforcement.

Innovative Research and Foundational Tools Thrust Area

Research and Development

Technology Readiness Level Exhibit

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Innovation Research and Foundational Tools Thrust Area	\$67,345	\$67,345	\$62,615

R&D Thrust Area Description

INNOVATIVE RESEARCH AND FOUNDATIONAL TOOLS THRUST AREA: S&T aims to understand the high-priority, homeland security capability needs and gaps, and identify optimal approaches for providing solutions and knowledge that address those needs. R&D investments enable gathering gaps/needs through analysis and requirements prioritization with focus on identifying and analyzing potential solutions and working with partners to select the best approach to delivering solutions, including knowledge and advice.

INNOVATIVE RESEARCH AND FOUNDATIONAL TOOLS THRUST AREA (Dollars in Thousands)				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Foundational Tools		\$10,220	\$10,220	\$10,784
	Aligning Departmental R&D with DHS Goals (Integrated Product Teams)	\$2,400	\$2,400	\$2,400
	First Responder Technologies-System Assessment and Validation for Emergency Responders (SAVER)	\$1,064	\$1,064	\$1,064
	Technology Clearinghouse	\$842	\$842	\$842
	Technology Scouting	\$3,232	\$3,232	\$3,796
	Technology Transition	\$2,682	\$2,682	\$2,682
Partnerships		\$11,564	\$11,564	\$15,323
	Bi-National Cooperative Pilot	-	-	-
	Coordination, Engagement, and Outreach	\$1,248	\$1,248	\$1,248
	Partnerships Intermediary Agreements (PIA)	-	-	\$1,000
	Small Business Innovation Research (SBIR) Management	\$2,175	\$2,175	\$2,175
	Silicon Valley Innovation Program (SVIP)	\$5,841	\$5,841	\$8,400
	Technology Transfer and Commercialization (T2C)	\$2,300	\$2,300	\$2,500
Technology Centers		\$40,561	\$40,561	\$36,508
	Advanced Computing Technology Centers	\$11,594	\$11,594	\$11,594
	Enduring Sciences Technology Centers	\$20,053	\$20,053	\$16,000
	Innovative Systems Technology Centers	\$8,914	\$8,914	\$8,914
Total – Innovative Research and Foundational Tools Thrust		\$62,345	\$62,345	\$62,615

Foundational Tools Program – A critical part of S&T's mission as science advisor to the DHS Secretary is to ensure that R&D receives the proper requirements analysis and due diligence that will support homeland security operations. S&T is responsible for collecting, identifying, and prioritizing DHS-wide R&D capability gaps/needs, minimizing or eliminating the duplication of efforts, as well as identifying cost effective solutions for Component operations and process inefficiencies. S&T also utilizes its scientific, technical, and mission expertise to conduct technology scouting analysis and transfer the information to DHS Components and stakeholders to support the identification, development, and transition of solutions that address high priority capability needs and gaps.

- **Aligning Departmental R&D with DHS Goals (Integrated Product Teams):** S&T will work with all DHS operational components to collect, identify, and prioritize RDT&E needs to inform S&T investment strategies. This will also enable S&T to conduct DHS-wide strategic planning and analysis to identify cross-cutting solution capabilities, avoid duplications, ensure complimentary investments, and ensure all components leverage each other's innovation and research capabilities.
- **First Responder Technologies-System Assessment and Validation for Emergency Responders (SAVER):** Assists First Responders of all disciplines (Fire, Emergency Medical Service, Law Enforcement) to better select, procure, use, and maintain public safety equipment and technologies. By using SAVER knowledge products first responder agencies will make smart, data-driven, and informed procurements. SAVER reports equip law enforcement and public safety agencies with knowledge of the right tools and technologies to effectively support their life-saving missions.
- **Technology Clearinghouse:** Ensures the continuation of a centralized data repository for DHS-wide deliverables and enable all DHS components the ability to leverage current and past investments. It will ensure that governance practices, ongoing technical development considerations, and content remain relevant while continuing to meet the requirements of the Homeland Security Act of 2002.
- **Technology Scouting:** Provides research of current and emerging state-of-the-market capabilities to inform internal S&T decisions to invest in RDT&E. Tech Scouting is a critical step in determining the best approach for conducting R&D and identifying partner opportunities to eliminate unnecessary investments in duplicative R&D and when available expedites the delivery and operational use of existing or adaptable solutions.
- **Technology Transition:** Leads the transition pathway of technologies and knowledge product to DHS partners and other government agencies; improve the probability of successful project outcomes; and provide a systematic approach to determine the feasibility and/or potential failure points associated with the transition of a solution so that resources can be quickly allocated to address issues or reallocated to priority projects. This funding will also track and report on DHS-wide R&D transitions and focus on post-transition evaluations of R&D activities for three years in accordance with the FY 2017 National Defense Authorization Act (NDAA).

Partnerships Program – S&T Partnerships build and sustain relationships with industry to advance the development and delivery of innovative technology solutions to homeland security operators. Funding supports two primary focus areas of innovative technology development and solution delivery.

- **Bi-National Cooperative Pilot:** The FY 2026 Budget does not include funding for this project.
- **Coordination, Engagement, and Outreach:** Provides outreach and training events to educate stakeholders on the activities and technology needs of DHS Components. In addition, funds support coordination engagement efforts with the private sector which will allow S&T to forge connections with technology developers and operational end users, enabling joint R&D and energizing a diverse group of research communities to address Homeland Security challenges.

- **Partnerships Intermediary Agreements (PIA):** Allows S&T to expand its reach to promote and market DHS technologies; gain increased partnerships with a variety of businesses and educational institutions; gain insight on industry perspectives on DHS technologies; and increase the likelihood of impact from research outcomes
- **Small Business Innovation Research (SBIR) Management:** Sustains maintenance as well as the advancement of the portal to facilitate congressionally mandated data reporting for the SBIR program and facilitate proposal submission to reduce submission errors which lead to unresponsive proposals. This portal will support multiple programs including: SBIR, SVIP, and Broad Agency Announcements (including the Long-Range Broad Agency Announcement). In addition, funds will be used to ensure the outreach efforts are being done most effectively and can ultimately have a beneficial impact on the disadvantaged small business community.
- **Silicon Valley Innovation Program (SVIP):** Accelerates and provides novel solutions for Component and HSE requirements that can be used in operations in as little as 24-36 months. The program attracts new companies through other transaction authorities that may not have previously engaged with the Government. These new companies address long-standing issues, as well as emerging needs.
- **Technology Transfer and Commercialization (T2C):** Ensures success of transfer and commercialization strategies of S&T capabilities to DHS components or the HSE. Funding will enable prioritization to support key initiatives such as the DHS Innovation Hub and the Homeland Security Startup Studio programs and complete required activities which include funding and participating in the Federal Laboratory Consortium.

Technology Centers Program – The Technology Centers conduct enduring, foundational, basic, and applied research activities into cross-cutting scientific, engineering, and technological areas. This will ensure advancements in science and technology are harnessed for cutting edge solutions for operational challenges and ensure technical SME capabilities are available to S&T and DHS for decision making. The Technology Centers are the source within S&T for scientific, engineering, and technology expertise and solutions to widespread challenges across DHS mission spaces.

- **Advanced Computing Technology Centers:** Continues building out its Artificial Intelligence testbed, as well as research and development into advanced analytics, quantum and emerging computing paradigms, trustworthiness and explain ability of artificial intelligence solutions, and enhancements of cyber threat mitigation approaches. Additionally, as privacy, data and digital trust concerns continue to grow, we continue research and development of privacy enhancing technologies for data handling (such as secure multi-party computation). This effort will provide research and development of analytics infrastructures to characterize multi-cloud and hybrid environments that will enable data sharing and collaboration across system owners, authorities, and policies, as well as continue predictive threat modeling of DHS operational domains and continued to support CISA through cyber tool experimentation environments.
- **Enduring Sciences Technology Centers:** Continues research and development as threats and our need to understand them evolve: (1) Evaluation of chemical, biological, and explosive sciences and technology developments to understand what may impact the DHS mission in 3-5 years; (2) exploration of new and advanced methods to inform threat characterization; and (3) assessment and evaluation of terrorism trends, terrorism prevention strategies, and technology adoption to inform policy makers.

- **Innovative Systems Technology Centers:** Enables DHS Components, as well as SLTT governments, and industry partners, public safety to better take advantage of next generation and emerging innovations in communication, sensor, and identity technologies. These centers and testbeds ensure that operators can effectively identify, evaluate, and integrate technologies into use and that potential vulnerabilities are mitigated.

Physical Security and Critical Infrastructure Resilience Thrust Area

Research and Development

Technology Readiness Level Exhibit

(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Physical Security and Critical Infrastructure Resilience Thrust Area	\$28,282	\$28,282	\$26,171

R&D Thrust Area Description

PHYSICAL SECURITY AND CRITICAL INFRASTRUCTURE RESILIENCE THRUST AREA: S&T invests in the R&D technologies, methods, and procedures to enhance the physical security of the Nation’s critical infrastructure which includes the Nation’s air travel system, mass transportation systems, and schools as well as soft targets such as mass public gatherings. S&T also conducts RDT&E to analyze the foreign influence spectrum; how it can impact critical functions such as the media and elections, and what can be done to prevent them. This research will enable policy makers and operational end-users to make informed decision to mitigate vulnerabilities and enhance community resilience in the face of various physical, social, and behavioral threats.

PHYSICAL SECURITY AND CRITICAL INFRASTRUCTURE RESILIENCE THRUST AREA (Dollars in Thousands)				
Program	Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Baggage / Cargo / People Screening		\$23,400	\$23,400	\$23,421
	Air Cargo Screening	\$3,250	\$3,250	\$2,750
	Checked Baggage Technology Development	\$3,250	\$3,250	\$3,300
	Next Generation Explosives Trace Detection	\$3,250	\$3,250	\$3,580
	Primary Screening for Carry-On Bags	\$5,000	\$5,000	\$4,871
	Primary Screening for Passengers	\$3,000	\$3,000	\$3,000
	Screening at Speed	\$5,650	\$5,650	\$5,920
Countering Violent Extremism		\$4,082	\$4,082	\$1,750
	Public Safety and Violence Prevention	\$4,082	\$4,082	\$1,750
Physical Security		\$800	\$800	\$1,000
	Perimeter Protection Technologies	-	-	\$1,000
	Soft Target Security (formerly Soft Targets Security)	\$800	\$800	-
Total – Physical Security and Critical Infrastructure Resilience Thrust		\$28,282	\$28,282	\$26,171

Baggage / Cargo / People Screening Program – This program develops prototype solutions for high priority technology capability gaps within the security screening processes for the Nation’s air travel and other mass transportation systems.

- **Air Cargo Screening:** Research, develops, and provides productization for solutions in the areas of both cargo and passenger safety. The focus of the Air Cargo program is to identify and develop technology for screening complex and dense cargo, advance high-speed screening to support exponential growth of cargo and continue development of test and evaluation capability for cargo screening equipment at prior to TSA operational deployment. The technologies developed for screening air cargo for explosives can also be adapted and applied to other operational scenarios and component requirements, including the use of hardware for the screening of opioids and other contraband for CBP, as well as the use in high security areas and sites for USSS.
- **Checked Baggage Technology Development:** The next generation explosive detection systems and subsystems will provide TSA with enhanced threat detection capabilities, lower false alarm rates, improved alarm resolution, and reduced lifecycle costs. This will allow TSA to be more efficient and effective in addressing emerging threats and keeping pace with public travel requirements. Such activities focus on the following three solution areas: Advanced X-Ray Systems Development, Algorithms, and Screening Performance. Funding will also support the demonstration and evaluation of officer training and evaluation improvements.
- **Next Generation Explosives Trace Detection:** Advances DHS’s mission to counter terrorism and homeland security threats, particularly those in operational environments such as airports and airways. Based on validated operational needs from DHS components, NextGen ETD develops and delivers innovative capabilities and technologies to multiple DHS Components in detecting and identifying emerging explosives while enhancing end-users’ detection performance. The program will also be used to develop novel X-Ray Diffraction technologies that detect and identify explosives through metal, ceramic, and other dense materials.
- **Primary Screening for Carry-On Bags:** Provides primary and secondary X-ray screening systems and algorithms to meet TSA’s most challenging detection requirements, reduce operator cognitive load, and improve passenger throughput. This project will provide TSA with the capability to detect prohibited items in over 600 bags per hour, without divestiture of electronics, liquids, aerosols, powders, or gels. The improved technologies and algorithms developed and transitioned by this project enable greater throughput, enhanced security measures, reduced operator burden, and improved lifecycle costs.
- **Primary Screening for Passengers:** Develops on-person screening systems, primarily millimeter-wave systems, and automated detection algorithms to meet TSA’s most challenging detection standards and throughput requirements to improve the passenger experience, mitigate insider threat risks, and secondary screening rates. When integrated with other advanced checkpoint technologies, these systems will provide faster, less invasive, and less costly passenger screening. Additionally, in FY 2026, this project also plans to conduct an airport demonstration of a shoe scanner system that detect threats in footwear without having to remove them for screening to gather feedback from passengers and Transportation Security Officers (TSOs).

- **Screening at Speed:** Integrates screening tools with real-time and walk-by sensing, wide-area surveillance, credential authentication, risk-based screening, and other technologies to further reduce overall risk throughout airports and in other operational areas including soft targets and national special security events. Improved detection probabilities and reduced false alarms will translate into fewer secondary inspections, lowering per-passenger costs for TSA, and reducing passenger inconvenience. A system-of-systems approach that is integrated using open architectures and capable of deploying a layered aviation security posture from curb-to-gate will reduce security risks and costs, and facilitate, cost-effective system upgrades to continue countering evolving adversaries.

Countering Violent Extremism Program – Acts of violence can pose a significant impact to American lives and Federal, State, local, and tribal governments (FSLTT). This program aims to conduct evidence-based social science research to meet the policy, operational, and public needs to improve effectiveness of public safety and violence prevention efforts implemented by FSLTT, and non-governmental stakeholders. This research will enable policy makers and operational end-users to make informed decision to divert vulnerable individuals, prevent potential offenders, mitigate vulnerabilities, and enhance community resilience in the face of various social and behavioral threats.

- **Public Safety and Violence Prevention:** Provides the HSE with knowledge and findings to enable education and awareness to reinforce a prevention architecture. These efforts will equip and empower law enforcement the ability to minimize a threat as it evolves while enhancing emergency preparedness and response by better understanding how current prevention programming can improve. Data and knowledge derived from the program shall increase understanding about what works, what doesn't, and what's promising in enhancing public safety and violence prevention efforts, while informing strategy, policy and operations for DHS Components and other key stakeholders.

Physical Security Program – Provides a layered and integrated capability to safely screen for potential threat items in unstructured crowds within soft-target venues and crowded spaces without impact to the speed of travel while maintaining individual privacy. Additionally, risk mitigation tools are being developed for public safety planners and law enforcement personnel to minimize risk to soft targets and public gatherings.

- **Perimeter Protection Technologies:** Continues the assessment, identification, evaluation, and development of emerging technologies across the USSS protective mission and other Components with an identified need to protect borders and perimeters of critical infrastructure. Additionally, it will be used to develop the Wall Assessment for Hazard Level (WAHL) application which includes a curtain wall failure modality to include in USSS event vulnerability modeling and to complete a simplified assessment tool to consider blast effects on building glass curtain walls. Lastly, the funding will provide Components a venue to test, evaluate, and select technology through a proven R&D process prior to making major acquisition investment decisions.
- **Soft Target Security (formerly Soft Targets Security):** The Budget does not include funding for this project.

*University Programs – PPA***Budget Comparison and Adjustments****Comparison of Budget Authority and Request***(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
Centers of Excellence	\$45,880	\$45,880	\$7,000	(\$38,880)
Minority Serving Institutions (MSI)	\$5,157	\$5,157	-	(\$5,157)
Total	\$51,037	\$51,037	\$7,000	(\$44,037)
Subtotal Discretionary - Appropriation	\$51,037	\$51,037	\$7,000	(\$44,037)

PPA Level I Description

University Programs (UP) supports homeland security-related research and education at U.S. colleges and universities to address high-priority DHS-related issues and to enhance homeland security capabilities over the long term. This PPA includes programs that bring together scientists, mathematicians, and engineers from many academic disciplines and institutions. These researchers investigate research questions important to DHS, as well as develop new technologies and approaches to solve complex and challenging homeland security problems.

UP includes the following programs:

Centers of Excellence (COE): The COE program focuses on building homeland security expertise in the academic community, creating strategic partnerships among universities, commercial interests, and public agencies, and developing a new science and engineering workforce dedicated to homeland security. COE program priorities are developed by DHS Components, based on their long-term mission needs.

Minority Serving Institutions (MSI): This program enhanced the capabilities of MSIs to develop homeland security-related science, technology, engineering, and mathematics research and curricula, and prepare MSI students for successful homeland security careers. There is no funding for this program in FY 2026.

University Programs – PPA
Summary of Budget Changes
(Dollars in Thousands)

	Positions	FTE	Amount
FY 2024 Enacted	-	-	\$51,037
FY 2025 Full-Year CR	-	-	\$51,037
FY 2026 Base Budget	-	-	-
Centers of Excellence	-	-	\$7,000
Total Research and Development Projects	-	-	\$7,000
FY 2026 Request	-	-	\$7,000
FY 2025 TO FY 2026 Change	-	-	(\$44,037)

University Programs – PPA Non Pay Budget Exhibits

Non Pay by Object Class *(Dollars in Thousands)*

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget	FY 2025 to FY 2026 Change
21.0 Travel and Transportation of Persons	\$7	\$7	-	(\$7)
25.1 Advisory & Assistance Services	\$196	\$196	-	(\$196)
25.3 Other Purchases of goods and services	\$1,123	\$1,123	\$1,123	-
25.5 Research & Development Contracts	\$1,262	\$1,262	\$485	(\$777)
31.0 Equipment	\$13	\$13	\$13	-
41.0 Grants, Subsidies, and Contributions	\$48,436	\$48,436	\$5,379	(\$43,057)
Total - Non Pay Budget Object Class	\$51,037	\$51,037	\$7,000	(\$44,037)

Research and Development
Research and Development Projects

Summary of Projects
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Centers of Excellence	\$45,880	\$45,880	\$7,000
Minority Serving Institutions (MSI)	\$5,157	\$5,157	-

**Centers of Excellence
Research and Development**

Technology Readiness Level Exhibit
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Centers of Excellence	\$45,880	\$45,880	\$7,000

Centers of Excellence (COE): S&T’s COE’s develop multidisciplinary, partner-driven homeland security solutions and play a critical role training future homeland security experts. The COE network, comprising hundreds of universities conducts groundbreaking research and collaborates with various partners, including academic institutions, industry, national laboratories, and government agencies, to develop innovative tools and technologies. This funding request supports administration priorities to strengthen early-stage R&D at universities and secure the Nation’s future.

CENTERS OF EXCELLENCE (Dollars in Thousands)			
Project	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Center for Accelerating Operational Efficiency (CAOE)	\$4,875	\$4,875	-
Criminal Investigations and Network Analysis (CINA)	\$4,876	\$4,876	-
Cross Border Threat Screening and Supply Chain Defense (CBTS)	\$4,876	\$4,876	-
Soft-target Engineering to Neutralize the Threat RealitY (SENTRY)	\$4,876	\$4,876	-
Master of Business Administration/Security Technology Transition (MBA/STT)	\$2,000	\$2,000	-
National Counterterrorism Innovation, Technology and Education Center of Excellence (NCITE)	\$4,875	\$4,875	\$3,500
Arctic Domain Awareness Center: Addressing Rapid Changes through Technology, Innovation and Collaboration (ADAC-ARCTIC)	\$4,875	\$4,875	\$3,500
Procurement Sensitive New COE Topic #1 ¹	\$4,876	\$4,876	-
Procurement Sensitive New COE Topic #2 ²	\$4,876	\$4,876	-
Procurement Sensitive New COE Topic #3 ³	\$4,875	\$4,875	-
Procurement Sensitive New COE Topic #4 ⁴	-	-	-
Total – Centers of Excellence Thrust Area	\$45,880	\$45,880	\$7,000

¹ FY 2024 funding for ADAC that has reached the end of its period of performance is being applied to this new COE topic (Procurement Sensitive pending posting of the Notice of Funding Opportunity). FY 2025 and FY 2026 funding for ADAC would be applied as well.

² In FY 2024, CIRI will be reaching the end of its period of performance and a New COE Topic (Procurement Sensitive) will be in the planning stages. FY 2024, FY 2025 and FY 2026 funding for CIRI is being applied to this new COE topic (Procurement Sensitive pending posting of the Notice of Funding Opportunity).

³ In FY 2024, CRC will be reaching the end of its period of performance and a New COE Topic (Procurement Sensitive) will be in the planning stages. FY 2024, FY 2025 and FY 2026 funding for CRC is being applied to this new COE topic (Procurement Sensitive pending posting of the Notice of Funding Opportunity).

⁴ In FY 2025, MBA-STT will be reaching the end of its period of performance and a New COE Topic (Procurement Sensitive) will be in the planning stages. FY 2026 funding for CRC is being applied to this new COE topic (Procurement Sensitive pending posting of the Notice of Funding Opportunity).

National Counterterrorism, Innovation, Technology and Education (NCITE)

NCITE directly supports the HSE counterterrorism missions and professionals with user-inspired projects that are necessary to prevent terrorism, improve security, and can be applied to operations. The FY 2026 Budget provides \$3.5M to support research, development, and technical expertise which will provide components with applied research and the greatest range of scientific and technical domains not available through other means and programs. In FY 2026, the NCITE COE plans to conduct market research and establish transition plans for the technologies resulting from at

least two projects and work with relevant DHS Components to create homeland security challenge areas, draft and release a request for proposal for potential research projects.

Arctic Domain Awareness Center: Addressing Rapid Changes through Technology, Innovation and Collaboration (ADAC-ARCTIC)

The 2021 DHS “*Strategic Approach for Arctic Homeland Security*” recognizes that this new operating environment will not only require additional maritime security presence but will also necessitate new operational capabilities and additional resources to perform cyber and infrastructure security missions, trade and travel facilitation, and natural disaster response in the near term; and inevitably, additional mission sets. ADAC-ARCTIC will conduct research and education to enable a secure and resilient Arctic region. This will include interdisciplinary basic and applied research, education, and technology transition across four related research and education themes: (1) Advance All-Domain Situational Awareness, (2) Improve Understanding of Risks and Potential Impacts, (3) Enable Adaptation for Resilience, and (4) Expand Collaboration and Cooperation across the HSE. The FY 2026 Budget provides \$3.5M to further develop the Center’s research and education portfolio and plans to hold at least one workshop or other stakeholder engagement event to shape future research and education activities and recruit and train students through Arctic Summer Internship Program.

Minority Serving Institutions (MSI)
Research and Development

Technology Readiness Level Exhibit
(Dollars in Thousands)

	FY 2024 Enacted	FY 2025 Full-Year CR	FY 2026 President's Budget
Minority Serving Institutions (MSI)	\$5,157	\$5,157	-

Minority Serving Institutions (MSI)

This program enhances the capabilities of MSIs to develop homeland security-related science, technology, engineering, and mathematics research and curricula, and prepare MSI students for successful homeland security careers. Current MSI programs, include the Scientific Leadership Award (SLA) program, the Summer Research Team (SRT) program, and the Homeland Security Professional Opportunities for the Student Workforce to Experience Research (HS POWER). The programs provide research opportunities and experiential learning, as well as homeland security course content and training in areas critical to homeland security while building enduring partnerships with the COEs. With targeted investments, S&T expects significant returns in the development of a future, diverse workforce that is well postured to take RDT&E positions critical to the success of HSE.

There is no funding for this program in FY 2026.