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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 2: Applied Research</i>	R-1 Program Element (Number/Name) PE 0602128D8Z I <i>Promotion and Protection Strategies</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	3.155	3.219	3.191	-	3.191	3.193	3.195	3.265	3.330	Continuing	Continuing
231: <i>Promotion and Protection Strategies</i>	0.000	3.155	3.219	3.191	-	3.191	3.193	3.195	3.265	3.330	Continuing	Continuing

Note

New Start (Y/N): No

A. Mission Description and Budget Item Justification

The Promotion and Protection Strategies program executes activities providing visibility, fostering partnerships, incentivizing industry transition partners, and supporting developmental ecosystem as a nucleus of defense industrial base for biotechnology.

For the Manufacturing Enabled by Modular Bioindustrial and Reusable (MEMBR) assets initiative, the program will bring together the Acquisition (e.g., Program Executive Officers, Program Managers, technology warrant officers, etc.), Policy, and Research and Engineering communities to establish a Biotechnology Acquisition and Investment Coordination Effort (BAICE). The BAICE will ensure integration of innovative biomanufactured products into DoD's systems and platforms through holistic investment, research & development, and acquisition strategies.

The BAICE will create the Department's first coordinating body at DoD to centralize acquisition efforts for biotechnology. By providing visibility, fostering partnerships across DoD, and incentivizing industry transition partners, the BAICE will support a developmental ecosystem in which new technologies are not only pushed to higher budget activities from lower ones, but where personnel and industry partners at higher budget activities pull on technologies being developed at lower ones. This will serve as the nucleus of a defense industrial base for biotechnology that delivers innovative biomanufactured products into DoD's systems and platforms.

B. Program Change Summary (\$ in Millions)

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	3.275	3.219	3.217	-	3.217
Current President's Budget	3.155	3.219	3.191	-	3.191
Total Adjustments	-0.120	0.000	-0.026	-	-0.026
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.120	-			
• Program Adjustments	-	-	-0.032	-	-0.032

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 2: <i>Applied Research</i>	R-1 Program Element (Number/Name) PE 0602128D8Z / <i>Promotion and Protection Strategies</i>
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• Economic Assumptions	-	-	0.006	-	0.006
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Change Summary Explanation

A reduction of \$0.032 million in FY 2025 was applied to meet DoD overall funding reductions, which were spread to mitigate impact. Funding increase of \$0.006 million in FY 2025 for Economic Assumptions.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 2					R-1 Program Element (Number/Name) PE 0602128D8Z / <i>Promotion and Protection Strategies</i>				Project (Number/Name) 231 / <i>Promotion and Protection Strategies</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>231: Promotion and Protection Strategies</i>	0.000	3.155	3.219	3.191	-	3.191	3.193	3.195	3.265	3.330	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Promotion and Protection Strategies program executes activities providing visibility, fostering partnerships, incentivizing industry transition partners, and supporting developmental ecosystem as a nucleus of defense industrial base for biotechnology.

For the Manufacturing Enabled by Modular Bioindustrial and Reusable (MEMBR) assets initiative, the program will bring together the Acquisition (e.g., Program Executive Officers, Program Managers, technology warrant officers, etc.), Policy, and Research and Engineering communities to establish a Biotechnology Acquisition and Investment Coordination Effort (BAICE). The BAICE will ensure integration of innovative biomanufactured products into DoD's systems and platforms through holistic acquisition and investment strategies.

The BAICE will create the Department's first coordinating body to centralize acquisition efforts for biotechnology. By providing visibility, fostering partnerships across DoD, and incentivizing industry transition partners, the BAICE will support a developmental ecosystem in which new technologies are not only pushed to higher budget activities from lower ones, but where personnel and industry partners at higher budget activities pull on technologies being developed at lower ones. This will serve as the nucleus of a defense industrial base for biotechnology that delivers innovative biomanufactured products into DoD's systems and platforms.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Biotechnology Acquisition and Investment Coordination Effort (BAICE)	3.155	3.219	3.191
Description: Ensure integration of biomanufactured products into DoD's systems and platforms through holistic investment, research and development and acquisition strategies.			
FY 2024 Plans:			
<ul style="list-style-type: none"> • Test identified acquisition pathways to incentivize industry and prime defense contractors to integrate bioproducts into the DoD supply chain. • Continue to identify capability gaps and opportunities for bioproducts to meet military requirements. • Partner with BioMADE to implement the strategy of building new pilot/industrial scale manufacturing facilities with an innovation center incorporated to facilitate partnership with the Department. • Establish and maintain metrics to measure success of implemented strategies based on quantitative results. 			
FY 2025 Plans:			
<ul style="list-style-type: none"> • Test and identify pathways to increase domestic availability of critical cellulose for a more resilient energetics supply chain for DoD. 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> Engage and collaborate with United States Department of Agriculture (USDA) on agriculturally derived cellulose sources. Assess vulnerabilities in Biomanufacturing of critical chemicals that present logistical challenges in contested regions and austere environments. Continue to sustain DoD Biotechnology subject matter experts that shape and manage Request for proposal(s)(RFPs) for a 5 year \$1B+ DoD investment in modernizing non-pharmaceutical Biotechnology infrastructure, products, and services for the benefit of the warfighter. Propose solutions to key identified barriers preventing wider adaptation of bioproducts (e.g., sustainable aviation fuels, feedstocks) within the DoD, and examine the logistical implications associated with adapting more bioproducts into DoD systems. Map domestic and foreign biomanufacturing ecosystem and the changes that occur over time for identification and tracking of metrics to support future implementation and refinement of the DoD Biomanufacturing Strategy. <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The decrease of \$0.028 million between FY 2024 and FY 2025 was applied to meet DoD overall funding reductions, which were spread to mitigate impact.</p>			
Accomplishments/Planned Programs Subtotals	3.155	3.219	3.191

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A