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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Office of the Secretary Of Defense **Date:** March 2023

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 1: <i>Basic Research</i>					PE 0601110D8Z / <i>Basic Research Initiatives</i>							
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	74.115	93.673	71.783	-	71.783	77.753	81.839	86.219	88.155	Continuing	Continuing
010: <i>Basic Research Initiatives</i>	-	28.267	42.931	6.665	-	6.665	9.220	10.875	12.598	14.196	Continuing	Continuing
016: <i>Minerva Research Initiative</i>	-	14.000	17.143	17.013	-	17.013	17.190	17.391	17.682	18.071	Continuing	Continuing
060: <i>Vannevar Bush Faculty Fellowship</i>	-	31.848	33.599	48.105	-	48.105	51.343	53.573	55.939	55.888	Continuing	Continuing

Note

New Start (Y/N): No

A. Mission Description and Budget Item Justification

Basic research provides the Department of Defense (DoD) with a deep and broad awareness of current directions in areas of research important to U.S. military capabilities – including physics and the physical sciences, materials science, chemistry and chemical engineering, electrical engineering, mathematics, computer science, mechanical and aerodynamic engineering, ocean sciences, biological sciences, and the social sciences, among others. Basic research sustains scientific and engineering communities as it generates the critical technical knowledge underpinnings of DoD capabilities. Basic research allows exploration and discovery, yielding disruptive non-incremental advances that can improve or radically change military capabilities, strategy, and operations.

The Basic Research Initiatives program element (PE) supports the defense basic research enterprise in three critical areas: Strategic Support for Basic Research (SSBR), the Minerva Research Initiative (MRI), and the Vannevar Bush Faculty Fellowship (VBFF) Program.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	76.702	62.386	63.847	-	63.847
Current President's Budget	74.115	93.673	71.783	-	71.783
Total Adjustments	-2.587	31.287	7.936	-	7.936
• Congressional General Reductions	-	-0.013			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	31.300			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.576	-			
• Program Adjustments	-0.011	-	7.936	-	7.936

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 1: <i>Basic Research</i>	R-1 Program Element (Number/Name) PE 0601110D8Z / <i>Basic Research Initiatives</i>
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<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>	FY 2022	FY 2023
Project: 010: <i>Basic Research Initiatives</i>		
Congressional Add: <i>Defense Experimental Program to Stimulate Competitive Research (DEPSCoR)</i>	19.000	20.000
Congressional Add: <i>Asymmetric Threat Analysis</i>	8.000	-
Congressional Add: <i>Central American Open Source Research Initiative and Coalition</i>	-	1.300
Congressional Add: <i>Global Competition Analysis Net Assessment</i>	-	10.000
Congressional Add Subtotals for Project: 010	27.000	31.300
Project: 016: <i>Minerva Research Initiative</i>		
Congressional Add: <i>Minerva Research Initiative</i>	10.000	-
Congressional Add Subtotals for Project: 016	10.000	-
Congressional Add Totals for all Projects	37.000	31.300

Change Summary Explanation

The increase of \$7.936 million in FY 2024 is comprised of a realignment of \$1.389 million to support the Historically Black Colleges and Universities/ Minority Serving Institutions program, which is a priority of the Under Secretary of Defense for Research and Engineering (USD(R&E)), and a realignment of \$0.067 million to support departmental priorities. Additionally, this increase includes \$2.040 for supporting the new Bush Fellows Research Team (BFRST) (2-year program) and nation-wide, cross-agency and international workshops; an increase of \$7.000 will enhance the Vannevar Bush Faculty Fellowship (VBFF) program and expand International Multidisciplinary University Research Initiative/Bilateral Academic Research Initiative (MURI/BARI); and an increase of \$0.352 million for economic assumptions.

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Appropriation/Budget Activity 0400 / 1					R-1 Program Element (Number/Name) PE 0601110D8Z / <i>Basic Research Initiatives</i>				Project (Number/Name) 010 / <i>Basic Research Initiatives</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
010: <i>Basic Research Initiatives</i>	-	28.267	42.931	6.665	-	6.665	9.220	10.875	12.598	14.196	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Basic Research Initiatives project, Project Code 010, includes Strategic Support for Basic Research (SSBR). SSBR supports oversight, policies, and initiatives to create conditions that allow defense basic research investments to produce high-payoff, transformative scientific breakthroughs for the Department, which can open new approaches of technology dominance and mastery of new domains of warfare. SSBR initiatives support the five Basic Research Office strategic goals: (1) support the modernization priorities set by the Office of the Secretary of Defense (OSD); (2) coordinate and conduct oversight of DoD basic research programs; (3) improve the science and engineering workforce and public outreach; (4) enhance university-industry collaboration; and (5) engage with the academic research community and international partners.

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

	FY 2022	FY 2023	FY 2024
<p>Title: Strategic Support for Basic Research (SSBR)</p> <p>Description: SSBR supports oversight, policies, and initiatives to create conditions that allow defense basic research investments to produce high-payoff, transformative scientific breakthroughs for the Department, which can open new approaches of technology dominance and mastery of new domains of warfare. SSBR initiatives support the five Basic Research Office strategic goals: (1) support the modernization priorities set by the Office of the Secretary of Defense (OSD); (2) coordinate and conduct oversight of DoD basic research programs; (3) improve the science and engineering workforce and public outreach; (4) enhance university-industry collaboration; and (5) engage with the academic research community and international partners.</p> <p>FY 2023 Plans: Continue the Bush Fellows Research Study Team (BFRST) program. Award a new class of fellows according to the critical priorities of the Department. In addition, the Basic Research Office will conduct a series of workshops aimed at generating cross-agency strategies to enhance university-government-industry collaborations, as well as with our international partners.</p> <p>FY 2024 Plans: Continue executing the Bush Fellows Research Study Team (BRFST) program to completion in FY 2024. Conduct a series of workshops aimed at generating cross-agency strategies to enhance university-government-industry collaborations, as well as with our international partners. Continue studies of the effectiveness of past DoD investments and high priority basic research in advancing new technologies and new capabilities for the Nation. Continue to analyze university-related business practices for improvement and efficiency and support for scientific expertise to oversee science and engineering initiatives.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: The increase from FY 2023 and FY 2024 is reflective of an OUSD(R&E) enhancement to the Strategic Support for Basic Research (SSBR) program, supporting the new BFRST (2-year program) and nation-wide, cross-agency and international workshops. The BFRST will provide strategic awareness of DoD mission needs to selected representatives of the U.S. academic community,</p>	1.267	4.631	6.665

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Appropriation/Budget Activity 0400 / 1	R-1 Program Element (Number/Name) PE 0601110D8Z / <i>Basic Research Initiatives</i>	Project (Number/Name) 010 / <i>Basic Research Initiatives</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
and facilitate exchange of ideas without filter. This leads to better comprehension and higher DoD relevance of future University research, as well as better leveraging of that community for guidance in determining future S&T directions. The workshops provide opportunities for a broader sample of the academic community to provide this guidance on technological areas, and help OSD assess the scientific trends, in order to determine future technological priorities for the DoD.			
<p>Title: Vannevar Bush Faculty Fellowship (VBFF) Program Increase</p> <p>Description: The VBFF Program ensures the DoD has a research portfolio that supports highly creative, innovative, and productive university researchers. The objectives of the program are to: (1) support scientific research that may lead to extraordinary outcomes of relevance to the DoD; (2) educate and train students and post-doctoral researchers for the defense and national security workforce; (3) foster long-term relationships between university researchers and the Department; (4) familiarize select university researchers and their students with DoD's current and future challenges through research and engagement with DoD-employed scientists; and (5) increase the number of exceptionally talented technical experts contributing to the DoD's mission.</p> <p>FY 2023 Plans: The FY 2023 budget will allow for a restoration of a robust and consistent Laboratory University Collaboration Initiative (LUCI) program, which provides opportunities for the S&T workforce in the DoD laboratories to leverage the Vannevar Bush Faculty Fellowship (VBFF) expertise and accelerate the development of new ideas for the DoD mission.</p> <p>The program will extend international partnerships with the initiation of a joint Multidisciplinary University Research Initiative (MURI)-class program, targeted at specific, high-priority scientific topics and partner countries with extraordinary expertise, based on consultation with VBFF fellows.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: The FY 2024 funding request of \$7.000 million for the VBFF has been administratively realigned to project 060.</p>	-	7.000	-
Accomplishments/Planned Programs Subtotals	1.267	11.631	6.665

	FY 2022	FY 2023
Congressional Add: Defense Experimental Program to Stimulate Competitive Research (DEPSCoR)	19.000	20.000
FY 2022 Accomplishments: Continued and expanded efforts to connect academic researchers in underrepresented states to DoD research problems. The increased funding for DEPSCoR allowed the		

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	FY 2022	FY 2023
Department to reach more universities and researchers capable of performing DoD research, and allowed for more awards for both research collaborations and capacity building opportunities. FY 2023 Plans: The increased funding will allow the Department to continue to support research collaboration and capacity building awards to academic researchers addressing DoD research problems. It will also allow the Department to increase outreach efforts to university researchers in underrepresented states.		
Congressional Add: Asymmetric Threat Analysis FY 2022 Accomplishments: The funding increase supported social science research related to asymmetric threats and the collaborative structure established with Assistant Secretary of Defense for Special Operations/ Low-Intensity Conflict (Policy-SO/LIC) and Joint Special Operations University (JSOU)/United States Special Operations Command (SOCOM) to manage research on asymmetric competition, including the support of relevant datasets used widely by the research community studying asymmetric threats. This program will continue through the National Consortium for the Study of Terrorism and Responses to Terrorism (START) at the University of Maryland and its Applied Research Laboratory for Intelligence and Security (ARLIS) University-Affiliated Research Center (UARC).	8.000	-
Congressional Add: Central American Open Source Research Initiative and Coalition FY 2023 Plans: The OUSD(R&E) Basic Research Office is finalizing a research plan for FY 2023 to set the direction of this funding increase reflecting the intent by Congress.	-	1.300
Congressional Add: Global Competition Analysis Net Assessment FY 2023 Plans: The OUSD(R&E) Basic Research Office is finalizing a research plan for FY 2023 to set the direction of this funding increase reflecting the intent by Congress.	-	10.000
Congressional Adds Subtotals	27.000	31.300

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Appropriation/Budget Activity 0400 / 1					R-1 Program Element (Number/Name) PE 0601110D8Z / <i>Basic Research Initiatives</i>				Project (Number/Name) 016 / <i>Minerva Research Initiative</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
016: <i>Minerva Research Initiative</i>	-	14.000	17.143	17.013	-	17.013	17.190	17.391	17.682	18.071	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Minerva Research Initiative (MRI) includes three primary components: (1) a university-based social science basic research grant program, funded in partnership with Air Force and Navy University Research Initiatives; (2) the Defense Education and Civilian University Research (DECUR) Partnership program for professional military education (PME) institutions; and (3) a collaboration with the Congressionally-established United States Institute of Peace (USIP) to award research support to advanced graduate students and early career scholars working on security and peace. All components contribute to Minerva's goals of revitalizing connections between the DoD and academic social science communities and building cultural and foreign area knowledge on topics ranging from China-Russia great power competition, National Defense Strategy (NDS) strategic priorities, to geopolitical power projection strategies in a multi-polar world. This deeper scientific understanding will provide a more informed basis to shape doctrine, analysis, and other strategic and operational decisions made by war planners and warfighters.

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

	FY 2022	FY 2023	FY 2024
Title: Minerva Research Initiative (MRI)	4.000	17.143	17.013
<p>Description: The Minerva Research Initiative includes three primary components: (1) a university-based social science basic research grant program, funded in partnership with Air Force and Navy University Research Initiatives; (2) the Defense Education and Civilian University Research (DECUR) Partnership program for professional military education (PME) institutions; and (3) a collaboration with the Congressionally-established USIP to award research support to advanced graduate students and early career scholars working on security and peace. All components contribute to Minerva's goals of revitalizing connections between the DoD and academic social science communities and building cultural and foreign area knowledge on topics ranging from China-Russia great power competition, National Defense Strategy (NDS) strategic priorities, to geopolitical power projection strategies in a multi-polar world. This deeper scientific understanding will provide a more informed basis to shape doctrine, analysis, and other strategic and operational decisions made by war planners and warfighters.</p> <p>FY 2023 Plans: With the FY 2023 base budget, Minerva will support research on understanding the social, cultural, behavioral, economic, and political context in which DoD operates. This includes university grants and projects partnering with PME Institutions. Furthermore, the program will continue collaboration with the operational community on all issues for which it has developed expertise among the social science community. It will help implement the DoD plan for social, management, and information sciences as guided by the language in section 220 of the National Defense Authorization Act for FY 2021, and it will continue collaboration with the USIP in supporting advanced doctoral students pursuing research on DoD topics of interest.</p> <p>FY 2024 Plans: Plans for FY 2024 are similar in scope to those in FY 2023 and will ensure the sustainment of the university-based social science basic research program, Defense Education and Civilian University Research (DECUR) partnership program, and the</p>			

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Appropriation/Budget Activity 0400 / 1	R-1 Program Element (Number/Name) PE 0601110D8Z / <i>Basic Research Initiatives</i>	Project (Number/Name) 016 / <i>Minerva Research Initiative</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
congressionally established United States Institute of Peace (USIP) research awards for early career peace and security scholars. In addition, funding will support outreach activities that build trusted networks between the DoD and academic social science communities, and ensure new scientific knowledge is discoverable. FY 2023 to FY 2024 Increase/Decrease Statement: Decrease will result in a minor reduction in scope for the MRI program in FY 2024.			
Accomplishments/Planned Programs Subtotals	4.000	17.143	17.013

	FY 2022	FY 2023
Congressional Add: Minerva Research Initiative	10.000	-
FY 2022 Accomplishments: Increased continuity in social science research and allowed additional focus on social science research in the National Defense Strategy priority areas. Funding allowed for topics other than climate change to be included in the next Minerva solicitation.		
Congressional Adds Subtotals	10.000	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Appropriation/Budget Activity 0400 / 1					R-1 Program Element (Number/Name) PE 0601110D8Z / <i>Basic Research Initiatives</i>				Project (Number/Name) 060 / <i>Vannevar Bush Faculty Fellowship</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
060: <i>Vannevar Bush Faculty Fellowship</i>	-	31.848	33.599	48.105	-	48.105	51.343	53.573	55.939	55.888	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Vannevar Bush Faculty Fellowship (VBFF) program supports world-class researchers in scientific areas of critical importance to the DoD and ensures the cultivation of exceptional talent. Fellows' research spans a broad set of emerging scientific areas with transformative potential, including Quantum Information Science, Novel Engineered Materials, Cognitive Neuroscience and human-machine interfaces, Engineering Biology, Applied and Computational Mathematics, Networks, Machine Learning and Artificial Intelligence, Manufacturing Science, and others. The program delivers the most innovative and transformational scientific ideas of relevance to the DoD, from the top scientists in the Nation. The program fosters close connections between academia and the defense science and engineering (S&E) enterprise, a primary goal of Strategic Support for Basic Research (SSBR) efforts. Fellows provide the Department the deep scientific expertise from today's leading research universities and collaborate with defense scientists and engineers. This program actively engages and coordinates basic research across the Department.

The project includes support for the Laboratory-University Collaboration Initiative (LUCI) program, which is designed to team scientists in the DoD laboratories with top academic researchers from the programs sponsored or overseen by the Office of the Secretary of Defense (in particular, the VBFF fellows), in order to collaboratively perform basic research on a topic of their choice. Three-year grants allow a deep exchange of ideas between academic and DoD research communities, bring the most recent scientific breakthroughs closer to DoD relevance, and greatly expand the skills and knowledge of the S&E workforce within the laboratories.

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

	FY 2022	FY 2023	FY 2024
Title: Vannevar Bush Faculty Fellowship (VBFF) Program	31.848	33.599	41.105
Description: The Vannevar Bush Faculty Fellowship (VBFF) Program ensures the DoD has a research portfolio that supports highly creative, innovative, and productive university researchers. The objectives of the program are to: (1) support scientific research that may lead to extraordinary outcomes of relevance to the DoD; (2) educate and train students and post-doctoral researchers for the defense and national security workforce; (3) foster long-term relationships between university researchers and the Department; (4) familiarize select university researchers and their students with DoD's current and future challenges through research and engagement with DoD-employed scientists; and (5) increase the number of exceptionally talented technical experts contributing to the DoD's mission.			
FY 2022 Accomplishments: Supported 46 Vannevar Bush Fellows and collaborative research efforts with 27 Laboratory-University Collaboration Initiative (LUCI) Fellows from DoD Service Laboratories. Reviewed and updated research topic areas with input from DoD S&T community. Organized and executed a competition to select a new class of Vannevar Bush Fellows. Organized and executed the Vannevar Bush annual meeting, along with science communication training. Organized and conducted site visits to establish communication			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
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with new Vannevar Bush Fellows and explain the program objectives and opportunities. Organized and executed a competition for the LUCI program. Conducted review of LUCI projects in DoD laboratories and reported the scientific progress and impacts.

FY 2023 Plans:

Plans for FY 2023 are similar in type to those of FY 2022, but expanded in scope due to the budget increase. As a first priority, the FY 2023 budget will allow restoration of a robust and consistent Laboratory University Collaboration Initiative (LUCI) program (currently, the program can only fund one set of awards every other year), with a class size that is consistent with the program initiation levels and the opportunities provided by the DoD's S&T workforce for innovative and transitional ideas. The second and smaller scope extension allows the funding of a VBFF class size that is also consistent with the number of high-level, highly worthy proposals submitted by world-class investigators at U.S. universities (from 8 to 9 or 10, depending on the quality of proposals).

Funding in the amount of \$7.000 million will be administratively realigned from project 010 to project 060 in FY 2023 for the Vannevar Bush Faculty Fellowship Program. This funding increase will support the creation of international collaboration programs of University team research, modeled after the MURI, with specific partner nations and for high-priority research areas.

FY 2024 Plans:

The FY 2024 budget continues the programs initiated in FY 2023, which will allow for the expansion and acceleration of transition and leverage of scientific expertise towards the DoD mission capability.

Funding in the amount of \$7.000 million will be administratively realigned from project 010 to project 060 in FY 2024 for the Vannevar Bush Faculty Fellowship Program. This funding increase will support the creation of international collaboration programs of University team research, modeled after the MURI, with specific partner nations and for high-priority research areas.

FY 2023 to FY 2024 Increase/Decrease Statement:

The increase from FY 2023 and FY 2024 is reflective of an OUSD(R&E) enhancement to the VBFF program, which will continue to support and expand the International Multidisciplinary University Research Initiative (MURI) program, started in FY 2023.

<i>Title:</i> Research Grant Programs	0.000	-	7.000
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Description: Enhance VBFF program and expand International Multidisciplinary University Research Initiative/Bilateral Academic Research Initiative (MURI/BARI)

FY 2024 Plans:

This FY 2024 funding will build a comprehensive research program on the development of new mathematical theory and computer science tools for the predictive modeling of complex social behavior at multiple scales. It will create a collaborative academic research program, incorporating multiple disciplines, providing the seed for a new field of science. It follows and builds upon early

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>exploratory research done under the SOMA program, part of a FY 2020 Congressional Add (Cyber Research). The program will be executed in close collaboration with MINERVA for addressing social science challenges of critical relevance to the DOD. Additionally, these funds will be used to expand the number of LUCI and VBFF fellows and to enhance our international MURI/ BARI engagement.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> The increase of \$7.000 million in FY 2024 will allow for enhancements to the VBFF by building a comprehensive research program for predictive modeling of complex social behavior, expand the number of VBFF and LUCI fellows and enhance international engagements.</p>			
Accomplishments/Planned Programs Subtotals	31.848	33.599	48.105

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

N/A

Remarks

D. Acquisition Strategy

N/A