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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b>					<b>R-1 Program Element (Number/Name)</b>							
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 1: Basic Research</i>					PE 0601110D8Z / <i>Basic Research Initiatives</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	68.534	75.542	39.828	-	39.828	-	-	-	-	-	-
010: <i>Basic Research Initiatives</i>	-	34.237	43.966	3.980	-	3.980	-	-	-	-	-	-
060: <i>Vannevar Bush Faculty Fellowship</i>	-	34.297	31.576	31.848	-	31.848	-	-	-	-	-	-
016: <i>Minerva Research Initiative</i>	-	0.000	0.000	4.000	-	4.000	-	-	-	-	-	-

**Note**

In FY 2022, New Project Code added for the Minerva Research Initiative. This effort is being re-aligned from Project Code 010 to new Project Code 016.

**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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	70.874	35.565	36.382	-	36.382
Current President's Budget	68.534	75.542	39.828	-	39.828
Total Adjustments	-2.340	39.977	3.446	-	3.446
• Congressional General Reductions	-	-0.023			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	40.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.340	-			
• Program Adjustment	-	-	3.446	-	3.446

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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 1: Basic Research</i>	<b>R-1 Program Element (Number/Name)</b> PE 0601110D8Z / <i>Basic Research Initiatives</i>
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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 010: *Basic Research Initiatives*

Congressional Add: *Program Increase for Minerva Research Initiative*

Congressional Add: *Defense Experimental Program to Stimulate Competitive Research (DEPSCoR)*

Congressional Add: *Cyber Research*

Congressional Add: *National Consortium for the Study of Terrorism and Responses to Terrorism (START)*

Congressional Add: *National Academy of Science (NAS) Study on Confucius Centers*

Congressional Add Subtotals for Project: 010

Congressional Add Totals for all Projects

	FY 2020	FY 2021
	2.000	17.000
	9.660	17.000
	8.000	-
	-	5.000
	-	1.000
	19.660	40.000
	19.660	40.000

**Change Summary Explanation**

FY 2022 increase for Minerva.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Office of the Secretary Of Defense **Date:** May 2021

<b>Appropriation/Budget Activity</b> 0400 / 1					<b>R-1 Program Element (Number/Name)</b> PE 0601110D8Z / <i>Basic Research Initiatives</i>				<b>Project (Number/Name)</b> 010 / <i>Basic Research Initiatives</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
010: <i>Basic Research Initiatives</i>	-	34.237	43.966	3.980	-	3.980	-	-	-	-	-	-

**Note**

In FY 2022, New Project Code added for the Minerva Research Initiative. This effort is being re-aligned from Project Code 010 to new Project Code 016.

**A. Mission Description and Budget Item Justification**

The Basic Research Initiatives project, Project Code 010, includes Strategic Support for Basic Research (SSBR) and the Minerva Research Initiative.

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.

The Minerva Research Initiative, a Department of Defense basic research program in the social sciences directed by the Office of the Secretary of Defense (OSD), funded in partnership with Air Force and Navy University Research Initiatives and executed by the Office of Naval Research (ONR) and the Air Force Office of Scientific Research (AFOSR), seeks to build a fundamental understanding of the sources of present and future conflict.

FY 2020 was the last year of funding for the Minerva Research Initiative in this Project Code. In FY 2021, received a \$17 million congressional add in support of Minerva efforts. Starting in FY 2022, Minerva efforts will be funded under separate Project Code 016.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Strategic Support for Basic Research (SSBR)	3.163	3.966	3.980
<b>Description:</b> 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>FY 2021 Plans:</b> Conduct workshops for scientific situational awareness. Continue convening national research leaders to provide expert perspectives on potential breakthroughs and barriers of advancement in rapidly evolving fields of basic research including a third year of the Dean's Roundtable. Review outcomes of the Bush Fellows Research Study Team (BFRST) pilot program and develop			

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<b>Appropriation/Budget Activity</b> 0400 / 1	<b>R-1 Program Element (Number/Name)</b> PE 0601110D8Z / <i>Basic Research Initiatives</i>	<b>Project (Number/Name)</b> 010 / <i>Basic Research Initiatives</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2020	FY 2021	FY 2022
<p>strategy and roadmap to enhance the interchange between Academia and the DoD to rapidly devise new solutions to warfighter challenges. Continue studies of the effectiveness of past DoD investments and high priority basic research in advancing new technologies and new capabilities for the Nation. As part of the Under Secretary of Defense for Research and Engineering (USD(R&amp;E)) mission, continue to analyze university-related business practices for improvement and efficiency and support for scientific expertise to oversee science and engineering initiatives. Organize and execute a competition for the I-Corps@DoD program, and conduct a review of I-Corps projects. Continue to iteratively refine communication and outreach efforts, such as site visits and the Science, Technology, and Innovation Exchange (STIx) conference to increase awareness of DoD basic research programs.</p> <p><b>FY 2022 Plans:</b> Plans for FY 2022 are similar in type and scope to those of FY 2021. The BFRST program will award a new class of fellows, selected from active VBFF fellows, according to the critical priorities of the DoD. The impact of current programs on nation-wide engineering and manufacturing capabilities of the future will be assessed.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Changes reflect minor budget fluctuations.</p>			
<p><b>Title:</b> Minerva Research Initiative (MRI)</p> <p><b>Description:</b> 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 the professional military education (PME) institutions; and (3) a collaboration with the Congressionally-established United States Institute of Peace 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>	11.414	-	-
<b>Accomplishments/Planned Programs Subtotals</b>	14.577	3.966	3.980

	<b>FY 2020</b>	<b>FY 2021</b>
<b>Congressional Add:</b> Program Increase for Minerva Research Initiative	2.000	17.000
<b>FY 2020 Accomplishments:</b> The Minerva Research Initiatives made two awards on the Foreign Malign Influence interest of the FY 2020 program increase. The total of both awards, \$3.900 million, included		

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<b>Appropriation/Budget Activity</b> 0400 / 1	<b>R-1 Program Element (Number/Name)</b> PE 0601110D8Z / <i>Basic Research Initiatives</i>	<b>Project (Number/Name)</b> 010 / <i>Basic Research Initiatives</i>	
		<b>FY 2020</b>	<b>FY 2021</b>
supplemental funding from the Air Force Office of Scientific Research (AFOSR). These 3-year awards are scheduled to conclude in FY 2023.			
<b>FY 2021 Plans:</b> In addition to FY 2021 funds supporting ongoing awards, Minerva will use FY 2021 funds to make awards out of a forthcoming Funding Opportunity Announcement (FOA) competition, expanding the Defense Education and Civilian University Research (DECUR) Partnership, and continuing to support the Minerva-USIP advanced graduate students, developing future researchers working on DoD problems.			
<b>Congressional Add:</b> Defense Experimental Program to Stimulate Competitive Research (DEPSCoR)		9.660	17.000
<b>FY 2020 Accomplishments:</b> DEPSCoR continued to build on the program started in FY 2019 to expand the DoD research landscape in states that have traditionally not received large quantities of DoD funds, enhancing the capabilities of institutions of higher education and increasing the number of university researchers responsive to DoD needs. The program included augmenting Service capacity building projects by supporting four additional Defense University Research Initiative Program awards, outreach to research institutions that have less engagement with the DoD by conducting a DEPSCoR webinar, and a stand-alone DEPSCoR competition which will provide support for at least 15 new basic research grants.			
<b>FY 2021 Plans:</b> DEPSCoR will continue to build on the program started in FY 2019 to expand the DoD research landscape in states that have traditionally not received large quantities of DoD funds, enhancing the capabilities of institutions of higher education and increasing the number of researchers responsive to DoD needs. The program will include a stand-alone DEPSCoR competition which will provide support for at least 20 new basic research grants, outreach to research institutions that have less engagement with the DoD by conducting a virtual DEPSCoR-day and upto two outreach events around the country, and supporting university capacity building activities in DoD relevant fields.			
<b>Congressional Add:</b> Cyber Research		8.000	-
<b>FY 2020 Accomplishments:</b> A multi-disciplinary research program was initiated to detect and mitigate the transmission of information designed to influence, deceive, and propagandize audiences in digital and social media. The first part of the program aims to develop methods to characterize influence campaigns and agents, and develop operationally effective recommendations for countering and blunting malicious campaigns. The second part of the program is a basic research effort in rigorous mathematical approaches, merged with socio-psychological models and implemented on modern computer science concepts, towards the development and automation of real-time detection and prediction of foreign malign influence operations, and the deployment of immediate counter-measures. This basic research will lay the groundwork for the field of socio-mathematics, enhanced by artificial intelligence, for combating malicious influence.			
<b>Congressional Add:</b> National Consortium for the Study of Terrorism and Responses to Terrorism (START)		-	5.000

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	FY 2020	FY 2021
<b>FY 2021 Plans:</b> As guided by conversations with Congressional authorizers and appropriators, the National Consortium for the Study of Terrorism and Responses to Terrorism (START) funds will be used to support maintenance and ongoing work on START-maintained datasets, including the Global Terrorism Database. Remaining funds will support 6.1 research on Irregular Warfare problem sets, as informed through conversations with the needs of the Joint Special Operations University and the Special Operations Forces (SOF) community.		
<b>Congressional Add:</b> National Academy of Science (NAS) Study on Confucius Centers <b>FY 2021 Plans:</b> The Defense Authorization Act for Fiscal Year 2021 contained a requirement that the Department cease funding (by October 1, 2023) institutions of higher education (for purposes other than direct support to students for education) that are host to Confucius Institutes. The congressional add will be used to provide funding to the National Academies of Sciences, Engineering, and Medicine (NASEM) to study the impacts of Confucius Institutes on the defense-funded academic research enterprise and to fulfill the Congressional requirement to consult with NASEM before deciding on whether to provide waivers for academic institutions hosting Confucius Institutes beyond October 1, 2023. The Basic Research Office is working with other stakeholders within OUSD(R&E) to develop an effective study plan. Once complete, the Basic Research Office will work with NASEM to execute the study and inform Department actions well in advance of the October 1, 2023 deadline. This study may also serve as awareness building within the academic community about the issues surrounding Confucius Institutes.	-	1.000
<b>Congressional Adds Subtotals</b>	19.660	40.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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<b>Appropriation/Budget Activity</b> 0400 / 1					<b>R-1 Program Element (Number/Name)</b> PE 0601110D8Z / <i>Basic Research Initiatives</i>				<b>Project (Number/Name)</b> 060 / <i>Vannevar Bush Faculty Fellowship</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
060: <i>Vannevar Bush Faculty Fellowship</i>	-	34.297	31.576	31.848	-	31.848	-	-	-	-	-	-

**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 mentioned above), in order to collaboratively perform basic research on a topic of their choice. The three-year grants allow a deep exchange of ideas between academic and the DoD research communities, brings the most recent scientific breakthroughs closer to DoD relevance, and greatly expands the skills and knowledge of the S&E workforce within the laboratories.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Vannevar Bush Faculty Fellowship (VBFF) Program	34.297	31.576	31.848
<b>Description:</b> 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.			
<b>FY 2021 Plans:</b> Support 57 Vannevar Bush Fellows and collaborative research efforts with 27 LUCI Fellows from DoD Service Laboratories. Review and update program focus topic areas with input from the DoD S&T community. Organize and execute a competition to select a new class of Vannevar Bush Fellows. Organize and conduct the Vannevar Bush annual meeting, including DoD laboratory tours. Facilitate connections between new Fellows and DoD scientists and engineers. Organize and conduct a program review and site visits to monitor the research progress by Vannevar Bush Fellows and their DoD collaborators. Organize			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
and execute a competition for the LUCI program. Conduct review of LUCI projects in DoD laboratories and report the scientific progress and impacts.  <b>FY 2022 Plans:</b> Plans for FY 2022 are similar in type and scope to those of FY 2021. The VBFF and LUCI class sizes will gradually increase, pending sufficient quality of proposals. Program reviews will be held. The scientific topics of interest will be re-examined and the Funding Opportunity Announcement (FOA) updated accordingly.  <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> The increase from FY 2021 to FY 2022 will support the increase in class size for VBFF and LUCI programs.			
<b>Accomplishments/Planned Programs Subtotals</b>	34.297	31.576	31.848

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
016: <i>Minerva Research Initiative</i>	-	0.000	0.000	4.000	-	4.000	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

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 the professional military education (PME) institutions; and (3) a collaboration with the Congressionally-established United States Institute of Peace 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 2020	FY 2021	FY 2022
<b>Title:</b> Minerva Research Initiative (MRI)	-	-	4.000
<b>Description:</b> 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 the professional military education (PME) institutions; and (3) a collaboration with the Congressionally-established United States Institute of Peace 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>FY 2022 Plans:</b> With the FY22 base budget, Minerva will support research on the social, cultural, behavioral, economic, and political impacts of climate and environmental change. This includes university grants and projects partnering with Professional Military Education Institutions. Furthermore, the program will continue collaborating 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 in the 2021 NDAA sec. 220 language; and it will continue collaboration with the U.S. Institute of Peace in supporting advanced doctoral students pursuing research on DoD topics of interest.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> In FY 2022, the MRI effort was re-aligned from Project Code 010 to this new Project Code 016.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	4.000

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0400 / 1	PE 0601110D8Z / <i>Basic Research Initiatives</i>	016 / <i>Minerva Research Initiative</i>

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A