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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b>					<b>R-1 Program Element (Number/Name)</b>							
3620F: <i>Research, Development, Test &amp; Evaluation, Space Force</i> / BA 1: <i>Basic Research</i>					PE 0601103SF / <i>University Research Initiatives</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	28.902	0.000	14.731	0.000	14.731	14.916	16.742	17.553	17.902	Continuing	Continuing
610002: <i>University Research Initiatives - Space</i>	-	28.902	0.000	14.731	0.000	14.731	14.916	16.742	17.553	17.902	Continuing	Continuing

**Note**

In FY 2023, Program Element began with CII funding. In FY 2025, some efforts from PE 0601103F/University Research Initiatives, Project 615094/University Research Initiatives, were transferred to PE 0601103SF/University Research Initiatives, Project 610002/University Research Initiatives - Space, for space-unique research.

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

This program supports defense-related basic research in a wide range of scientific and engineering disciplines relevant to maintaining U.S. military technology superiority. Research topics include, but are not limited to, revolutionary and high priority technologies critical to the five core technical competencies of the United States Space Force: Space Security; Combat Power Projection; Space Mobility and Logistics; Information Mobility; and Space Domain Awareness. The program also enhances and promotes the education of U.S. scientists and engineers in disciplines critical to maintaining, advancing, and enabling future U.S. defense technologies. This program assists universities in establishing superior instrumentation capabilities needed to improve the quality of defense-related research and education. A fundamental component of this program is the recognition that future technologies and technology exploitations require highly coordinated and concerted multi- and inter-disciplinary efforts. Efforts in this program have been coordinated through the Department of Defense Science and Technology Executive Committee process to harmonize efforts and eliminate duplication.

In order to manage, execute, and deliver science and technology capabilities, this program element may include: necessary civilian pay expenses; expenses to support the operation and maintenance of facilities; as well as expenses related to travel, supplies, IT hardware, software and support, administrative contractor services, etc.

Funds in this program element may be used to investigate specified science advancements primarily targeted to challenges in the space domain and multi-domain research with space-domain application.

This program is in Budget Activity 1, Basic Research because this budget activity includes scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	30.000	0.000	0.000	0.000	0.000
Current President's Budget	28.902	0.000	14.731	0.000	14.731
Total Adjustments	-1.098	0.000	14.731	0.000	14.731
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.098	0.000			
• Other Adjustments	0.000	0.000	14.731	0.000	14.731

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 610002: *University Research Initiatives - Space*

Congressional Add: *Program increase: Defense University Research Instrumentation Program*

Congressional Add Subtotals for Project: 610002

Congressional Add Totals for all Projects

	<b>FY 2023</b>	<b>FY 2024</b>
	28.902	0.000
	28.902	0.000
	28.902	0.000

**Change Summary Explanation**

FY 2025 funding in the Current President's Budget increased compared to the Previous President's Budget by \$14.731M. Funding increased due to a transfer from the U.S. Air Force to the U.S. Space Force for space-unique research.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> Multidisciplinary University Research Initiative	0.000	0.000	11.791	0.000	11.791
<b>Description:</b> Promote fundamental, multi- and interdisciplinary science and engineering research projects involving multiple principal investigators.					
<b>FY 2024 Plans:</b> Not Applicable					
<b>FY 2025 Base Plans:</b>					

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<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 1: Basic Research</i>	<b>R-1 Program Element (Number/Name)</b> PE 0601103SF / <i>University Research Initiatives</i>
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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Fund competitive research grants at U.S. universities that focus on significantly expanding the basic knowledge of Department of the Air Force-relevant science and technology areas critical to the U.S. Space Force core technical competencies. Focus on complex research efforts not normally achievable in smaller funded, single investigator awards.</p> <p><b>FY 2025 OCO Plans:</b> Not Applicable</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 increased compared to FY 2024 by 11.791M. Increase is a result of a transfer from USAF Program Element PE 0601103F/ University Research Initiatives, Project 615094/University Research Initiatives into this USSF Program Element 0601103SF/Defense Research Sciences, Project 610002/University Research Initiatives - Space, for space-unique research.</p>					
<p><b>Title:</b> Research Instrumentation</p> <p><b>Description:</b> Enhance scientific and engineering research through advanced education infrastructure and instrumentation at U.S. universities.</p> <p><b>FY 2024 Plans:</b> Not Applicable</p> <p><b>FY 2025 Base Plans:</b> Award grants on a competitive basis under the Defense University Research Instrumentation Program to U.S. universities to acquire state-of-the-art, high technology instrumentation and infrastructure to enhance U.S. Space Force research and educational capabilities.</p> <p><b>FY 2025 OCO Plans:</b> Not Applicable</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 increased compared to FY 2024 by 2.940M. Increase is a result of a transfer from USAF Program Element PE 0601103F/ University Research Initiatives, Project 615094/University Research Initiatives into this USSF Program Element 0601103SF/Defense Research Sciences, Project 610002/University Research Initiatives - Space, for space-unique research.</p>	0.000	0.000	2.940	0.000	2.940
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	14.731	0.000	14.731

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	FY 2023	FY 2024
<b>Congressional Add:</b> Program increase: Defense University Research Instrumentation Program	28.902	0.000
<b>FY 2023 Accomplishments:</b> Conducted Congressionally directed effort		
<b>FY 2024 Plans:</b> Not Applicable		
<b>Congressional Adds Subtotals</b>	28.902	0.000

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

N/A

**Remarks**

**E. Acquisition Strategy**

Not Applicable