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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	289.995	26.995	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S050: <i>Small Business Innovation Research</i>	274.180	23.666	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S051: <i>Small Business Technology Transfer</i>	15.815	3.329	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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

The goals of the Small Business Innovation Research (SBIR) program are to stimulate technological innovation, increase private sector commercialization of federal research and development (R&D), increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation. Leveraging the innovation of small business concerns is an important contributor to the development of the cutting-edge technologies that will generate decisive and sustained U.S. military advantages by increasing the readiness, modernization, and lethality of the United States Special Operations Command (USSOCOM). This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter. The goals of the Small Business Technology Transfer (STTR) program is to stimulate a partnership of ideas between small business concerns (SBCs) and research institutions through the USSOCOM funded research or research and development (R/R&D). By providing awards to SBCs or cooperative R/R&D efforts with research institutions, USSOCOM supports innovation and economic growth to generate decisive and sustained U.S. military advantages. This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter.

<b>B. Program Change Summary (\$ in Millions)</b>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	26.995	0.000	0.000	-	0.000
Total Adjustments	26.995	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	26.995	-			

**Change Summary Explanation**

Funding:

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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>

FY 2021: Net increase of \$26.995 million is due to reprogrammings from various program elements for the congressionally mandated SBIR (\$23.666 million) and STTR (\$3.329 million) programs.

FY 2022: None.

FY 2023: None.

Schedule: None.

Technical: None.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>				<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S050: <i>Small Business Innovation Research</i>	274.180	23.666	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The goals of the Small Business Innovation Research (SBIR) program is to stimulate technological innovation, increase private sector commercialization of federal research and development (R&D), increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation. Leveraging the innovation of small business concerns is an important contributor to the development of the cutting-edge technologies that will generate decisive and sustained U.S. military advantages by increasing the readiness, modernization, and lethality of the United States Special Operations Command (USSOCOM). This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Small Business Innovation Research (SBIR)	23.666	0.000	0.000
<b>FY 2022 Plans:</b>			
<ul style="list-style-type: none"> <li>• Biotechnology Space (estimated funding, \$3.400 million): Human performance improvements; in field medical improvements; and combat divers' breathing improvements.</li> <li>• Control and Communications (estimated funding, \$3.092 million): Small tactical ultra-secure communication.</li> <li>• Artificial Intelligence &amp; Machine Learning (estimated funding, \$8.600 million): Multi domain virtual innovation; social media monitor and measure development.</li> <li>• Advanced Small Arms Ammunition and Precision Strike (estimated funding, \$5.000 million): Sniper heads up display; and small Unmanned Aerial System (UAS) munition.</li> </ul>			
<b>FY 2023 Plans:</b>			
<ul style="list-style-type: none"> <li>• Biotechnology Space (estimated funding, \$4.166 million): In field medical improvements; and combat divers' breathing improvements.</li> <li>• Control and Communications (estimated funding, \$4.204 million): Small tactical ultra-secure communication; low orbital satcom commercial mobile communications, command, and control for common operating picture.</li> <li>• Artificial Intelligence &amp; Machine Learning (estimated funding, \$3.000 million): Monitor and measure development; data analytics; and modeling and simulation.</li> <li>• Advanced Small Arms Ammunition and Precision Strike (estimated funding, \$9.000 million): Improvements to SOF specific precision strike munitions; Sniper heads up display; and small UAS munition.</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
• Directed energy (estimated funding, \$3.000 million): Hi energy density battery.			
<b>Accomplishments/Planned Programs Subtotals</b>	23.666	0.000	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

SBIR is a three-phase program that provides early-stage R&D to small companies. Eligible projects must fulfill an R&D need identified by Department of Defense and have the potential to be developed into a product or service for commercial or defense markets. SBIR is designed to stimulate technological innovation, increase private sector commercialization of federal R&D, increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation.

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Small Business Innovation Research (SBIR) Phase I < \$150K	C/Various	Various : Various	43.681	3.891	Dec 2020	-		-		-		-	Continuing	Continuing	-
SBIR Phase II >\$750K	C/Various	Various : Various	31.988	19.775	Oct 2020	-		-		-		-	Continuing	Continuing	-
Prior Year Funding	C/Various	Various : Various	198.511	-		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			274.180	23.666		-		-		-		-	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			274.180	23.666		-		-		-		-	Continuing	Continuing	N/A

**Remarks**  
Due to multiple awards, the dates listed above reflect the first Phase I and II efforts awarded.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command			<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7		<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>		<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>	

	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b><i>Small Business Innovative Research (SBIR)</i></b>																												
Phase I Efforts	██████████																											
Phase II Efforts	██████████																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Small Business Innovative Research (SBIR)</i></b>				
Phase I Efforts	1	2021	4	2021
Phase II Efforts	1	2021	4	2021

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S051 / <i>Small Business Technology Transfer</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
S051: <i>Small Business Technology Transfer</i>	15.815	3.329	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The goals of the Small Business Technology Transfer (STTR) program is to stimulate a partnership of ideas between small business concerns (SBCs) and research institutions through the United States Special Operations Command (USSOCOM) funded research or research and development (R/R&D). By providing awards to SBCs or cooperative R/R&D efforts with research institutions, USSOCOM supports innovation and economic growth to generate decisive and sustained U.S. military advantages. This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter.

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

	FY 2021	FY 2022	FY 2023
<b>Title:</b> Small Business Technology Transfer (STTR)	3.329	0.000	0.000
<b>FY 2022 Plans:</b> • Advanced Small Arms Ammunition and Precision Strike (estimated funding, \$2.825 million): Improvements to SOF specific precision strike munitions.			
<b>FY 2023 Plans:</b> • A series of feasibility and initial research into the following focus areas (estimated funding, \$3.287 million): Next Gen Effects; Network & Data management; Biotechnologies & Human Interface; Next Generation Mobility; Next Generation Intelligence, Surveillance, and Reconnaissance (ISR) & Situational Awareness (SA); and Hyper Enabled Operator (HEO).			
<b>Accomplishments/Planned Programs Subtotals</b>	3.329	0.000	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

The STTR provides early-stage R&D funding directly to small companies working cooperatively with researchers at universities and other research institutions. The STTR is also a three-phased program designed to stimulate technological innovation, increase private sector commercialization of federal R&D, increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation.

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S051 / <i>Small Business Technology Transfer</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Small Business Technology Transfer (STTR) Phase I <\$150K	C/FFP	Various Vendors : Various Locations	6.600	-		-		-		-		-	0.000	6.600	-
STTR Phase II >\$750K	C/Various	Various Vendors : Various Locations	4.092	3.329	Nov 2020	-		-		-		-	Continuing	Continuing	-
Prior Year Funding	C/Various	Various : Various	5.123	-		-		-		-		-	0.000	5.123	-
<b>Subtotal</b>			15.815	3.329		-		-		-		-	Continuing	Continuing	N/A

**Remarks**  
Due to multiple awards, the dates listed above reflect the last Phase I and II awarded.

	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	15.815	3.329	-	-	-	-	Continuing	Continuing	N/A

**Remarks**  
Due to multiple awards, the dates listed above reflect the first Phase I and II efforts awarded.



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S051 / <i>Small Business Technology Transfer</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Small Business Technology Transfer (STTR)</i></b>				
STTR Phase I Efforts	1	2021	4	2021
STTR Phase II Efforts	2	2021	4	2021