

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605502F / <i>Small Business Innovation Research</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	324.371	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
663005: <i>Small Business Innovation Research</i>	-	324.371	0.000	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**

Implementation of 15 U.S.C., Section 638 to maximize the creative, innovative, and entrepreneurial spirit of small businesses to solve technological problems.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	324.371	0.000	0.000	0.000	0.000
Total Adjustments	324.371	0.000	0.000	0.000	0.000
• 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	324.371	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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

	FY 2015	FY 2016	FY 2017
<b>Title:</b> Small Business Innovation Research	324.371	0.000	0.000
<b>Description:</b> Small Business Innovation Research			
<b>FY 2015 Accomplishments:</b> Implemented the provisions of 15 U.S.C., Section 638, to maximize the creative, innovative, and entrepreneurial spirit of small businesses to solve technological problems. Integrated Air Force needs and requirements into research and development topics to enhance military and commercial potential. Applied pilot administration funding for enhanced outreach and communications in the form of Small Business Industry Days and participation in Small Business Administration national road shows. Utilized Direct to Phase II SBIR authority in the solicitation process to focus on potential rapid response solutions for warfighters.			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>SBIR supported many small business matured technologies during 2015. For example, one SBIR investment yielded a super-hot (5,000F) metal vapor jet that cuts through 1/2' steel in less than a second. This handheld breaching tool is useful for military special forces and for civilian first responders. Another SBIR project resulted in a rapid battery charging system which allows multiple battery packs to be recharged in vehicles in as little as 10 minutes. This system now powers over 3,500 vehicles in the Nation's airports, keeping them operating 24 hours a day every day. The system is also used in more than 10,000 vehicles in factories and distribution centers, resulting in significant energy cost savings.</p> <p><b>FY 2016 Plans:</b> N/A</p> <p><b>FY 2017 Plans:</b> N/A</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	324.371	0.000	0.000

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

**Remarks**

**E. Acquisition Strategy**  
N/A

**F. Performance Metrics**  
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.