Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 2: Applied Research

PE 0602228D8Z: Historically Black Colleges and Universities and Minority Institutions (HBCU/

**DATE:** February 2012

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	22.678	-	-	-	-	-	-	-	_	Continuing	Continuing
P489: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	22.678	-	-	-	-	-	-	-	-	Continuing	Continuing

### A. Mission Description and Budget Item Justification

The HBCU/MI program provides support in fields of science and engineering that are important to national defense. The Department of Defense (DoD) HBCU/MI Program encourages participation of small minority schools as well as large minority research institutions. This competitive program provides support through grants or contracts for research, education assistance, instrumentation purchases, and technical assistance as described below:

- Research. The research grants are to further the knowledge in the basic scientific disciplines through theoretical and empirical activities. Collaborative research allows university professors to work directly with military laboratories or other universities.
- Education. Education assistance funds are used by minority institutions to strengthen their academic programs in science, technology, engineering, and mathematics (STEM) thereby increasing the number of under-represented minorities obtaining undergraduate and graduate degrees in these fields. These grants provide equipment, scholarships, cooperative work/study opportunities, visiting faculty programs, summer programs, and a variety of other enhancements designed to support students and to encourage them to pursue careers in STEM.
- Infrastructure. This program allows universities to purchase basic laboratory equipment for research and education program enhancements and highly sophisticated research instruments, such as lasers and spectrometers.
- Technical assistance. These funds are used to design programs that enhance the ability of minority institutions to successfully compete for future Defense funding. The objective is to assist the HBCU/MI community in areas such as proposal writing and administration of grants and contracts.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of	DATE: F	DATE: February 2012							
APPROPRIATION/BUDGET ACTIVITY		EM NOMENCLA							
400: Research, Development, Test & Evaluation, Defense-Wide	PE 0602228D8Z: Historically Black Colleges and Universities and Minority Institutions (HBCL								
BA 2: Applied Research		MI)							
. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total				
Previous President's Budget	15.067	_	-	-	-				
Current President's Budget	22.678	-	-	-	-				
Total Adjustments	7.611	-	-	-	-				
<ul> <li>Congressional General Reductions</li> </ul>	-	_							
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-							
<ul> <li>Congressional Rescissions</li> </ul>	-	-							
<ul> <li>Congressional Adds</li> </ul>	-	-							
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-							
<ul> <li>Reprogrammings</li> </ul>	0.452	-							
<ul> <li>SBIR/STTR Transfer</li> </ul>	-0.634	-							
<ul> <li>Congressional Adjustments</li> </ul>	8.000	-	-	-	=				
<ul> <li>Economic Assumptions</li> </ul>	-0.117	-	-	-	-				
• FFRDC	-0.085	-	-	-	-				
<ul> <li>Other Program Adjustments</li> </ul>	-0.005	-	-	-	-				

PE 0602228D8Z: *Historically Black Colleges and Universities and M...* Office of Secretary Of Defense

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense										DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research			R-1 ITEM NOMENCLATURE PE 0602228D8Z: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)				PROJECT P489: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)					
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost	
P489: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	22.678	-	-	-	-	-	-	-	-	Continuing	Continuing	

### A. Mission Description and Budget Item Justification

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- Infrastructure. This program allows universities to purchase basic laboratory equipment for research and education program enhancements and highly sophisticated research instruments, such as lasers and spectrometers.
- Technical assistance. These funds are used to design programs that enhance the ability of minority institutions to successfully compete for future Defense funding. The objective is to assist the HBCU/MI community in areas such as proposal writing and administration of grants and contracts.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	22.678	-	-
<b>Description:</b> The HBCU/MI program provides support for research and collaboration with DoD facilities and personnel. The research grants further knowledge in the basic physical scientific and engineering disciplines through theoretical and empirical activities. Collaborative research allows university professors to work directly with military laboratories or other universities.			
FY 2011 Accomplishments:  Developed and issued one solicitation for research projects and equipment. The solicitation closed on May 25, 2011 and the Assistant Secretary of Defense for Research and Engineering (ASD(R&E)) News Release announcing the winners was published			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secr	etary Of Defense		DATE: Fe	bruary 2012			
				storically Black Colleges and ies and Minority Institutions (HBCU/MI)			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013		
on December 7, 2011. The DoD HBCU/MI program awarded 33 basis with HBCUs/MIs that included the following. (1) Supported research Conducted research and educational collaboration between the Nava Avionic Enabling Technology Development for Manned and Unmanne Labs in the summer of 2011. Twenty were hired by DoD Labs upon on in the amount of \$2.0 million in support of the John Hopps Defense R funding supported grants initiatives for policy and E-Government and FY 2012 Plans:	and collaboration with DoD facilities and personnel. All Air Warfare Center and other HBCUs/MIs in supposed Airborne System project. Forty-one interns worke completion of internships (\$2.0 million). (3) Provide Research Scholars Program at Morehouse College. Service administrative tax in the amount of \$1.378	(2) ort of the ed at DoD d funding Other million.					
Issue program solicitation to select new awards in support of basic re at HBCUs/MIs.  Continue the research and educational collaboration project between Avionic Enabling Technology Development for Manned and Unmanned	Naval Air Warfare Center and HBCUs/MIs in suppo	ort of the					
summer interns from 40 to 50 participants.  Collect and assess the data from the DoD Components on the action "Reinvigorating Our Relationship with HBCUs and MIs."	s described in the ASD(R&E) December 2, 2011 me	emo,					
Conduct annual review of the six DoD Centers of Excellence started in	in FY 2011.						
Continue to expand partnerships among major institutions of higher e	education and the HBCUs/MIs.						
Conduct annual competition of the HBCU/MI program.							
Continue to assess the DoD-wide HBCU/MI programs in order to stre DoD.	engthen the competitive position of these institutions	within					
Conduct annual review of the six DoD Centers of Excellence started in	in FY 2011.						
Continue to examine the effectiveness of DoD-wide efforts to increase STEM fields and the transition of these students into DoD or the fede	•	MIs in					

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretar	DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0602228D8Z: Historically Black Colleges	P489: Histo	rically Black Colleges and	
BA 2: Applied Research	and Universities and Minority Institutions	Universities	and Minority Institutions (HBCU/MI)	
	(HBCU/MI)			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Conduct outreach workshops to expose HBCUs/MIs to opportunities in DoD.			
Accomplishments/Planned Programs Subtotals	22.678	-	-

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

N/A

## **D. Acquisition Strategy**

N/A

#### E. Performance Metrics

Since 2007, the following data has been collected as a grant requirement:

- Percent of students graduating with undergraduate degrees in Science, Mathematics, Engineering, and Technology fields.
- Percent of students pursuing graduate and Ph.D. degrees.
- Number of undergraduate students achieving specified GPA average.
- Number of students participating in the Centers of Excellence for Research and Engineering.
- Number of students working in Defense Laboratories.

This data constitutes the "Existing Baseline" for measurement and improvement in future years.