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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>					PE 0602228D8Z: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	35.245	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
P489: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>	-	35.245	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

The FY 2012 President's Budget Request (PBR) transferred the Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program from the Office of the Secretary of Defense (OSD) to the Army. The FY 2012 National Defense Authorization Act (NDAA) directed the OSD to retain oversight and execution of the HBCU/MI program. Accordingly, FY 2012 funds were reprogrammed from Army PE 0601104A to OSD PE 0602228D8Z for program execution.

The FY 2013 PBR requested funds for the HBCU/MI program under Army PE 0601104A. To comply with direction of the Congress, OSD will submit a reprogramming request in FY 2013 to transfer funds from the Army PE 0601104A to OSD PE 0602228D8Z.

In FY 2014, funding for the HBCU/MI program is requested under OSD budget activity 1, PE 0601228D8Z. The OSD Assistant Secretary of Defense for Research and Engineering (ASD(R&E)) retains oversight and execution of the program.

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 further the knowledge in the basic scientific disciplines through theoretical and experimental activities. Collaborative research allows university research staff to work directly with military laboratories or other universities.
- Education. Minority institutions use education assistance funds 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.

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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)*

- 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. HBCU/MI uses these funds 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. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	35.245	0.000	0.000	-	0.000
Total Adjustments	35.245	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	35.245	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Program Adjustments	-	-	0.000	-	0.000

Change Summary Explanation

FY 2012 reflects a reprogramming action of \$35.245 million from RDT&E-A, PE 0601104A to RDT&E-DW, PE 0602228D8Z in line with Congressional direction.

FY 2013 appropriated funds will be reprogrammed to the OSD PE in the same manner as FY 2012.

FY 2014 funds will be requested under PE 0601228D8Z (budget activity 1).

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>					R-1 ITEM NOMENCLATURE PE 0602228D8Z: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>				PROJECT P489: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>		
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
P489: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>	-	35.245	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

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Note

The FY 2012 President's Budget Request (PBR) transferred the Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program from the Office of the Secretary of Defense (OSD) to the Army. The FY 2012 National Defense Authorization Act (NDAA) directed the OSD to retain oversight and execution of the HBCU/MI program. Accordingly, FY 2012 funds were reprogrammed from Army PE 0601104A to OSD PE 0602228D8Z for program execution.

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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 further the knowledge in the basic scientific disciplines through theoretical and experimental activities. Collaborative research allows university research staff to work directly with military laboratories or other universities.
- **Education.** Minority institutions use education assistance funds 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.

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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)		
• Technical assistance. HBCU/MI uses these funds 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 2012	FY 2013	FY 2014
Title: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)		35.245	0.000	0.000
Description: 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 2012 Accomplishments: Issued program solicitation to select new awards in support of basic research and student involvement with principal investigators at HBCUs/MIs. Solicitation closed on July 11, 2012. Anticipate new awards to be in place by March 2013.				
Collected and evaluated the data from the DoD Components on the actions described in the ASD(R&E) December 2, 2011 memo, "Reinvigorating Our Relationship with HBCUs and MIs."				
Conducted annual review of the six DoD Centers of Excellence started in FY 2011.				
Conducted a DoD Technical Officers and HBCU Investigators workshop in which the purpose was to establish closer links between the two groups and to develop long-term relationships for DoD and the institutions. Approximately 75 attended (16 HBCUs participated, and eight DoD Agencies participated).				
Funded the research and educational collaboration project between Naval Air Warfare Center and HBCUs/MIs in support of the Avionic Enabling Technology Development for Manned and Unmanned Airborne System. Goal is to increase the number of FY 2013 summer interns from 40 to 50 participants (\$3.250 million).				
Funded the on-going effort with the Thurgood Marshall College Fund Defense Leadership project in support of STEM scholarships and internships to HBCUs/MIs (\$3.100 million).				
FY 2013 Plans: Conduct annual competition of the HBCU/MI program.				
Establish the process needed to fund new Centers of Excellence in support of the ASD(R&E) Science and Technology (S&T) Priorities in the areas of Cyber Security Science and Technology, Data-to-Decisions, and Autonomy.				

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Expand the HBCU/MI participation in Multidisciplinary University Research Initiative (MURI), Defense University Research Instrumentation Program (DURIP), MINERVA, and Science, Mathematics, and Research for Transformation (SMART) programs.												
Develop a DoD-wide HBCU/MI Strategic Plan.												
Continue to assess the DoD-wide HBCU/MI programs in order to strengthen the competitive position of these institutions within DoD.												
Continue the research and educational collaboration project between Naval Air Warfare Center and HBCUs/MIs in support of the Avionic Enabling Technology Development for Manned and Unmanned Airborne System. Goal is to increase the number of FY 2014 summer interns from 50 to 60 participants.												
Conduct annual review of the six DoD Centers of Excellence started in FY 2011.												
Continue to examine the effectiveness of DoD-wide efforts to increase the number of minorities graduating from HBCUs/MIs in STEM fields and the transition of these students into DoD or the federal workforce.												
Conduct outreach workshops to expose HBCUs/MIs to opportunities in DoD.												
Accomplishments/Planned Programs Subtotals										35.245	0.000	0.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• BA 1, PE 0601228D8Z: <i>HBCU/MI</i>	0.000	0.000	30.895		30.895	31.199	28.639	24.798	25.230	Continuing	Continuing	
Remarks												
D. Acquisition Strategy N/A												
E. Performance Metrics Since FY 2007, the following data has been collected as a grant requirement:												

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• 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 Grade Point 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.		