

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Office of Secretary Of Defense **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0602228D8Z: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	62.696	15.067	-	-	-	-	-	-	-	Continuing	Continuing
P489: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>	62.696	15.067	-	-	-	-	-	-	-	Continuing	Continuing

**Note**

The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program transfers from BA 2, PE 0602228D8Z to the Army in FY 2012.

**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 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.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	66.553	15.067	15.245	-	15.245
Current President's Budget	62.696	15.067	-	-	-
Total Adjustments	-3.857	-	-15.245	-	-15.245
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-3.392	-			
• SBIR/STTR Transfer	-0.442	-			
• Other Program Adjustments	-0.023	-	-15.245	-	-15.245

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

**Project:** P489: *Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)*

Congressional Add: *Active Duty Training and Education Program*

Congressional Add: *Morehouse College, John H. Hopps Defense Research Scholars Program*

Congressional Add: *Thurgood Marshall College Fund Defense Leadership and Technology Initiative*

Congressional Add: *Instrumentation Program for Tribal Colleges*

Congressional Add Subtotals for Project: P489

Congressional Add Totals for all Projects

	<b>FY 2010</b>	<b>FY 2011</b>
	2.000	-
	2.400	-
	1.200	-
	2.475	-
Congressional Add Subtotals for Project: P489	8.075	-
Congressional Add Totals for all Projects	8.075	-

**Change Summary Explanation**

The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program transfers from BA 2, PE 0602228D8Z to the Army in FY 2012.

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0602228D8Z: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>	<b>PROJECT</b> P489: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P489: <i>Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)</i>	62.696	15.067	-	-	-	-	-	-	-	Continuing	Continuing

**Note**

The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program transfers from BA 2, PE 0602228D8Z to the Army in FY 2012.

**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 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.

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

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	54.621	15.067	-
<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.			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2010	FY 2011	FY 2012
<p><b><i>FY 2010 Accomplishments:</i></b> Developed and issued two solicitations. The first broad agency announcement (BAA), Tribal Colleges and Universities (TCUs) closed June 15, 2010. The solicitation afforded the TCU HBCU/MI community an opportunity to acquire 13 equipment grants to enhance STEM programs and to facilitate the education of students in research areas important to the DoD. The equipment grants are for a twelve-month performance period and will range from \$0.132 to \$0.400.</p> <p>The second HBCU/MI BAA for Centers of Excellence in Research and Education, basic research awards, and equipment grants closed August 6, 2010. Awards are scheduled for second quarter FY 2011.</p> <p>Initiated independent assessment of HBCU/MIs required by Section 242 of the FY 2009 National Defense Authorization Act. The results of the study will assist DoD to better understand the impact of the program and future direction.</p> <p><b><i>FY 2011 Plans:</i></b> Develop and issue two solicitations: (1) HBCU/MI Core Program for research projects and equipment and (2) Tribal Colleges and Universities announcement for equipment grants. Continue efforts with HBCU/MIs to support research and collaboration with DoD facilities and personnel.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	54.621	15.067	-

	FY 2010	FY 2011
<b><i>Congressional Add:</i></b> Active Duty Training and Education Program	2.000	-
<b><i>FY 2010 Accomplishments:</i></b> Evaluated proposal from Benedict College. Award anticipated second quarter FY 2011.		
<b><i>Congressional Add:</i></b> Morehouse College, John H. Hopps Defense Research Scholars Program	2.400	-
<b><i>FY 2010 Accomplishments:</i></b> Grant awarded September 15, 2010.		
<b><i>Congressional Add:</i></b> Thurgood Marshall College Fund Defense Leadership and Technology Initiative	1.200	-
<b><i>FY 2010 Accomplishments:</i></b> Evaluated proposal. Grant award anticipated second quarter FY 2011.		
<b><i>Congressional Add:</i></b> Instrumentation Program for Tribal Colleges	2.475	-

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	<b>FY 2010</b>	<b>FY 2011</b>
<b>FY 2010 Accomplishments:</b> Thirteen equipment grants were awarded to enhance STEM programs and to facilitate the education of students in research areas important to the DoD.		
<b>Congressional Adds Subtotals</b>	8.075	-

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

<b>Line Item</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• 0601228D8Z: <i>HBCU/MI</i>	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

Since 2007, the following data is 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 will constitute the "Existing Baseline" for measurement and improvement in future years.