

## OSD RDT&amp;E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY  
RDT&E/ Defense Wide BA# 2

PE NUMBER AND TITLE

**0602228D8Z - Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)**

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	20.145	17.603	14.423	15.613	15.610	15.864	16.263
P489 Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	20.145	17.603	14.423	15.613	15.610	15.864	16.263

**A. Mission Description and Budget Item Justification:** The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program provides infrastructure support in fields of science and engineering that are important to national defense. The DoD Infrastructure Support Program is the only program that encourages participation of small minority schools as well as research institutions. This competitive program provides support through grants or contracts for research, collaborative research, education assistance, instrumentation purchases, and technical assistance. This project competitively supports programs at minority institutions nationwide in following areas:

- 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 the selected institutions to strengthen their academic programs in science, mathematics, and engineering 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 science, mathematics, and engineering.
- Infrastructure. This program allows the university to purchase from basic laboratory equipment for education program enhancements to highly sophisticated research instruments, such as lasers and spectrometers.
- Technical assistance. These funds are used to design programs to 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>B. Program Change Summary</b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	20.767	13.887	14.199
Current BES/President's Budget (FY 2007)	20.145	17.603	14.423
Total Adjustments	-0.622	3.716	0.224
Congressional Program Reductions		-0.284	
Congressional Rescissions			
Congressional Increases		4.000	
Reprogrammings			
SBIR/STTR Transfer	-0.594		

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Other	-0.028	0.224
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**C. Other Program Funding Summary:** Not Applicable.

**D. Acquisition Strategy:** Not Applicable.

**E. Performance Metrics:**

FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
07						

- Comment: • 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.

**OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)**

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APPROPRIATION/ BUDGET ACTIVITY  
RDT&E/ Defense Wide BA# 2

PE NUMBER AND TITLE

PROJECT

**0602228D8Z - Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) P489**

Cost (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
P489	Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	20.145	17.603	14.423	15.613	15.610	15.864	16.263

**A. Mission Description and Project Justification:** (U) The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) program provides infrastructure support in fields of science and engineering that are important to national defense. The DoD Infrastructure Support Program is the only program that encourages participation of small minority schools as well as research institutions. This project competitively supports programs at minority institutions nationwide in following areas:

- Research. The research grants are to further the knowledge in the basic scientific disciplines through theoretical and empirical activities.
- Education. Education assistance funds are used by the selected institutions to strengthen their academic programs in science, mathematics, and engineering thereby increasing the number of under-represented minorities obtaining undergraduate and graduate degrees in these fields.
- Infrastructure. This program allows the university to purchase from basic laboratory equipment for education program enhancements to highly sophisticated research instruments, such as lasers and spectrometers.
- Technical assistance. These funds are used to design programs to enhance the ability of minority institutions to successfully compete for future Defense funding.

**B. Accomplishments/Planned Program:**

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
HBCU/MI	20.145	17.603	14.423

FY 2005 Accomplishments: Continued evaluation of the awards made with prior year funds. The broad agency announcement (BAA) for the HBCU/MI Infrastructure Support Program FY 2005 solicitation. The solicitation closed on January 21, 2005. The program received 162 eligible proposals. These included 91 proposals for research and 71 for instrumentation/equipment. Based on Orders of Merit, 25 grants were awarded. The solicitation afforded the HBCU/MI community an opportunity to acquire 20 research grants and 17 equipment grants to enhance science, mathematics, and engineering (SME) programs and to facilitate the education of students in research areas important to the DoD. The research grants will be supported for three years ranging from \$146,000 thousand to \$476,000 thousand. The equipment grants are for a twelve-month performance period and will range from \$51,000 to \$200,000. The Army Research Office and the Air Force Office of Scientific Research will execute the awards.

The FY 2005 program also contained three congressional adds which resulted in two separate BAAs. The FY 2005 DoD Appropriations Act added an additional \$2.400 million in the HBCU/MI Program for Tribal Colleges and Universities (TCUs). The Army Research Office was designated manager for the special solicitation and allocated \$2.400 million to the TCUs. The BAA closed on April 22, 2005. Fifteen proposals were received. Nine equipment grants were made to the TCUs ranging from \$66,000 thousand to \$400,000 thousand and will have a 12 month performance period.

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PROJECT

**P489**

Also, in FY 2005 the DoD Appropriations Act added an additional \$4.400 million in the HBCU/MI Program for Hispanic Serving Institutions (HSIs). The Army Research Office issued a separate solicitation in April 2005 for HSIs to compete. The BAA closed on July 8, 2005. The Army Research Office received 60 proposals. DoD awarded seventeen grants to HSIs totaling \$4.000 million. Eight equipment grants (ranging from \$98,000 thousand to \$200,000 thousand) and nine research grants (ranging from \$188,000 thousand to \$485,000 thousand) with performance periods of 12 and 36 months respectively. The third grant for \$500,000 thousand was for the Montford Point Marine Corps Project in which the Office of Naval Research was designated the manager.

FY 2006 Plans: Continue evaluation of the awards made with prior year funds. In FY 2006 the HBCU/MI Infrastructure Program will continue to build infrastructure through instrumentation and equipment awards by issuing solicitations; one for the Infrastructure Support Program and the second announcement for TCUs. The objective is to increase the quality of education provided in SME and build HBCU/MIs that currently offer advanced degrees in SME. In FY 2006 a review of the four DoD Centers of Excellence started in FY 2003 will be conducted to assess the number of students participating in the Centers for science, mathematics, and engineering (SME) the performance of the centers, and the business process used by the centers to ensure the education of students in research and education areas important to the DoD. The FY 2006 DoD Appropriations Act added four congressional adds totaling \$4.000 million. They are: (1) Morehouse College John H. Hopps Defense Research Program \$1.700 million; (2) Nanoscience and Biotechnology Laboratory Research \$1.000 million; (3) Tribal Colleges and Universities \$1.200 million; and (4) Thurgood Marshall Scholarship Fund \$100 thousand. The FY 2006 competitions will be for new minority research, education, equipment, and infrastructure building.

FY 2007 Plans: Continue evaluation of awards made with prior year funds. FY 2007 competitions for instrumentation/research equipment, three-five year research projects, undergraduate scholarships and graduate fellowships awards.

**C. Other Program Funding Summary:** Not Applicable.

**D. Acquisition Strategy:** Not Applicable.

**E. Major Performers**

Category	Name	Location	Type of Work and Description	Award Date
<b>Labs</b>				
	Army Research Office	Research Triangle Park, NC	Provided for new awards to be made under the HBCU/MI Infrastructure Support Program competition, and for new awards to be made under the competition for Tribal Colleges and Universities.	18 APR 2005
	Office of Naval Research	Arlington, VA	Provided for the Montford Point Marine Corps Project.	26 JAN 2005