

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Secretary Of Defense **Date:** February 2015

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 1: Basic Research</i>	R-1 Program Element (Number/Name) PE 0601228D8Z / <i>Historically Black Colleges and Universities and Minority Institutions</i>
--	---

COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	33.883	34.412	25.834	-	25.834	25.388	26.242	31.042	31.462	Continuing	Continuing
P448: <i>Historically Black Colleges and Universities and Minority Institutions</i>	-	33.883	34.412	25.834	-	25.834	25.388	26.242	31.042	31.462	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Historically Black Colleges and Universities and Minority Institutions (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 experimental 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 intern programs, and a variety of other enhancements designed to support students and to encourage them to pursue careers in STEM.
- Instrumentation purchases. The program allows universities to purchase basic laboratory equipment for research and education program enhancements to highly sophisticated research instruments, such as lasers and spectrometers.
- Technical assistance. The 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.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Secretary Of Defense	Date: February 2015
---	----------------------------

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 1: Basic Research</i>	R-1 Program Element (Number/Name) PE 0601228D8Z I <i>Historically Black Colleges and Universities and Minority Institutions</i>
--	---

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	35.895	24.412	26.812	-	26.812
Current President's Budget	33.883	34.412	25.834	-	25.834
Total Adjustments	-2.012	10.000	-0.978	-	-0.978
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	10.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.692	-			
• SBIR/STTR Transfer	-1.320	-			
• Economic Assumptions	-	-	-0.073	-	-0.073
• Realignment for Higher Priority Programs	-	-	-0.905	-	-0.905

Change Summary Explanation

FY 2016 internal realignment reflects funding for higher Departmental priorities and requirements.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense										Date: February 2015		
Appropriation/Budget Activity 0400 / 1					R-1 Program Element (Number/Name) PE 0601228D8Z / <i>Historically Black Colleges and Universities and Minority Institutions</i>				Project (Number/Name) P448 / <i>Historically Black Colleges and Universities and Minority Institutions</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
P448: <i>Historically Black Colleges and Universities and Minority Institutions</i>	-	33.883	34.412	25.834	-	25.834	25.388	26.242	31.042	31.462	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Historically Black Colleges and Universities and Minority Institutions (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 experimental activities. Collaborative research allows university professors to work directly with DoD 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 intern programs, and a variety of other enhancements designed to support students and to encourage them to pursue careers in STEM.
- Instrumentation purchases. The program allows universities to purchase basic laboratory equipment for research and education program enhancements to highly sophisticated research instruments, such as lasers and spectrometers.
- Technical assistance. The 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 2014	FY 2015	FY 2016
Title: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	33.883	34.412	25.834
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 DoD laboratories or other universities.			
FY 2014 Accomplishments:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense		Date: February 2015
Appropriation/Budget Activity 0400 / 1	R-1 Program Element (Number/Name) PE 0601228D8Z / <i>Historically Black Colleges and Universities and Minority Institutions</i>	Project (Number/Name) P448 / <i>Historically Black Colleges and Universities and Minority Institutions</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Continued efforts from FY 2013. Conducted annual competition of the HBCU/MI program. Awarded 33 equipment grants totaling \$10.700 million. Continued the research and educational collaboration project between the Thurgood Marshall College Fund and a new initiative, STEM Prep with Paul Quinn College and Cheyney University of Pennsylvania. Increased the number of FY 2014 summer interns from 60 to 79 participants totaling \$3.000 million. Conducted competition for new Centers of Excellence in support of the ASD(R&E) Science and Technology priorities in the areas of Cyber Security, Research Data Analysis, and Autonomy totaling \$15.000 million. FY 2015 Plans: Continue efforts from FY 2014. Conduct annual competition of the HBCU/MI program for basic research and student support. Continue the research and educational collaboration with STEM Prep project with HBCUs: Paul Quinn College and Cheyney University of Pennsylvania. The goal is to increase the number of FY 2015 summer interns from 79 to 90 participants. Establish new Centers of Excellence in support of the ASD(R&E) Science and Technology priorities in the areas of Cyber Security, Research Data Analysis, and Autonomy. FY 2016 Plans: Continue efforts from FY 2015. Conduct annual competition of the HBCU/MI program for basic research, student support, and/or equipment/instrumentation. Continue the research and educational collaboration with the STEM Prep project with HBCUs: Paul Quinn College and Cheyney University of Pennsylvania. The goal is to increase the number of FY 2016 summer interns from 90 to 100 participants. Continue the efforts from FY 2015 to establish new Centers of Excellence in support of the ASD(R&E) Science and Technology priorities in the areas of Cyber Security, Research Data Analysis, and Autonomy.			
Accomplishments/Planned Programs Subtotals	33.883	34.412	25.834

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

- Number of students funded other than undergraduates
- Number of undergraduate students funded
- Number of undergraduates funded who graduated

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense		Date: February 2015
Appropriation/Budget Activity 0400 / 1	R-1 Program Element (Number/Name) PE 0601228D8Z / <i>Historically Black Colleges and Universities and Minority Institutions</i>	Project (Number/Name) P448 / <i>Historically Black Colleges and Universities and Minority Institutions</i>
<ul style="list-style-type: none">• Number of students participating in the Centers of Excellence for Research and Education• Number of students working in Defense Laboratories• Number of undergraduates funded who graduated with degrees in STEM• Number of graduates who will continue to pursue graduate or Ph.D. degrees in STEM• Number of graduates who intend to work for DoD• Number of undergraduates who will receive scholarships and fellowships for further studies in STEM		