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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense **Date:** March 2014

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>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	-	35.895	24.412	-	24.412	26.812	26.421	27.312	32.312	Continuing	Continuing
P448: <i>Historically Black Colleges and Universities and Minority Institutions</i>	-	-	35.895	24.412	-	24.412	26.812	26.421	27.312	32.312	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) Program was realigned from Budget Activity (BA) 2, Program Element (PE) 0602228D8Z to BA 1, PE 0601228D8Z in FY 2014. The Office of the Secretary of Defense (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 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 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 to 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. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	30.895	31.199	-	31.199
Current President's Budget	-	35.895	24.412	-	24.412
Total Adjustments	-	5.000	-6.787	-	-6.787
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Strategic Efficiency Savings	-	-	-6.787	-	-6.787

Change Summary Explanation

The reduction is a strategic efficiency approach to reduce funding and staffing. As a result, we provide a better alignment of funding and provide support to a smaller military force.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of Defense **Date:** March 2014

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>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P448: <i>Historically Black Colleges and Universities and Minority Institutions</i>	-	-	35.895	24.412	-	24.412	26.812	26.421	27.312	32.312	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

The Historically Black Colleges and Universities and Minority Institutions (HBCU/MI) Program was realigned from Budget Activity (BA) 2, Program Element (PE) 0602228D8Z to BA 1, PE 0601228D8Z in FY 2014. The Office of the Secretary of Defense (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

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- **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 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 to 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 2013	FY 2014	FY 2015
Title: Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	-	35.895	24.412

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>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.</p> <p>FY 2014 Plans: Continue efforts from FY 2013. Conduct annual competition of the HBCU/MI program. 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, the Thurgood Marshall College Fund and a new initiative, STEM Prep with Paul Quinn College and Cheyney State University. The goal is to increase the number of FY 2014 summer interns from 60 to 75 participants. Establish new Centers of Excellence in support of the ASD(R&E) Science and Technology Priorities in the areas of Cyber Security Science and Technology, Data-to-Decisions, and Autonomy.</p> <p>FY 2015 Plans: Continue efforts from FY 2014. Conduct annual competition of the HBCU/MI program. 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 and the STEM Prep project with HBCUs: Paul Quinn College and Cheney State University. The goal is to increase the number of FY 2015 summer interns from 75 to 85 participants. Establish new Centers of Excellence in support of the ASD(R&E) Science and Technology Priorities in the areas of Cyber Security Science and Technology, Data-to-Decisions, and Autonomy.</p>			
Accomplishments/Planned Programs Subtotals	-	35.895	24.412

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BA 2, PE 0602228D8Z: <i>HBCU/MI</i>	27.246	-	-	-	-	-	-	-	-	-	Continuing Continuing

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

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

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<ul style="list-style-type: none">• Number of undergraduates funded who graduated• 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		