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	Exhibit R-2a	a, RDT&E Pr	oject Justificat	ion			February 200)3
ppropriation/Budget Activity DT&E.DW / BA2			Project Name *Historically (HBCU/MI)		ges and Univer Z	sities and Min	nority Institut	ions
Cost (\$ in millions)	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009
BCU/MI Mission Description and Budget Item J	23.784	25.980	0	0	0	0	0	0
) <u>BRIEF DESCRIPTION OF ELEN</u> Beginning in FY2004, the Historically B sponsibilities will be transferred to the A (U) P489, The Historically Black Colleg	lack Colleges a Army under PE	-0601128A a	nd will result in	a more appr	ropriate policy	-level role for	OSD.	
of small minority schools as well as rese	arch institutions	5 This competition	etitive program r	rovides suppo	ort through grai	nts or contracts	for research	ollaborativ
 research, education assistance, instrumer nationwide in following areas: <u>Research</u>. The research grants are to research allows university professor <u>Education</u>. Education assistance fur engineering thereby increasing the n provide equipment, scholarships, co enhancements designed to support s <u>Infrastructure</u>. This program allows sophisticated research instruments, s <u>Technical assistance</u>. These funds a funding. The objective is to assist the objective is to assist the objective statements. 	o further the known o further the known s to work direct nds are used by number of under opperative work/ atudents and to e s the university t such as lasers and are used to design he HBCU/MI co	es, and technic owledge in the ly with milita- the selected in -represented r (study opportu- encourage ther to purchase from a spectrometer on programs to ommunity in a	e basic scientific ry laboratories on astitutions to stre- minorities obtain unities, visiting f m to pursue care om basic laborat ers. o enhance the ab preas such as pro-	his project con disciplines the r other univer- engthen their a ting undergrad aculty program ers in science, ory equipmen ility of minori posal writing	mpetitively sup rough theoretic sities. academic progr duate and gradu ns, summer pro mathematics, a t for education ity institutions t and administra	ports program cal and empiric ams in science late degrees in ograms, and a and engineerin program enhan to successfully tion of grants a	s at minority in cal activities. C , mathematics, these fields. T variety of other g. ncements to hig compete for fu	stitutions Collaborativ and These grants
 <u>Research</u>. The research grants are to research allows university professor <u>Education</u>. Education assistance fur engineering thereby increasing the m provide equipment, scholarships, co enhancements designed to support s <u>Infrastructure</u>. This program allows sophisticated research instruments, s <u>Technical assistance</u>. These funds a funding. The objective is to assist th 	o further the known o further the known s to work direct nds are used by number of under opperative work/ atudents and to e s the university t such as lasers and are used to design he HBCU/MI co	es, and technic owledge in the ly with milita- the selected in -represented r (study opportu- encourage ther to purchase from a spectrometer on programs to ommunity in a	e basic scientific ry laboratories on stitutions to stre- minorities obtain unities, visiting f m to pursue care om basic laboraters. o enhance the ab preas such as pro	his project con disciplines the r other univer- engthen their a ting undergrad aculty program ers in science, ory equipmen ility of minori posal writing	mpetitively sup rough theoretic sities. academic progr duate and gradu ns, summer pro mathematics, a t for education ity institutions t and administra	ports program cal and empiric ams in science late degrees in ograms, and a and engineerin program enhan to successfully tion of grants a	s at minority in al activities. C , mathematics, these fields. T variety of other g. ncements to hig compete for fu and contracts.	stitutions Collaborativ and These grants

(U) <u>FY 2002 Accomplishments:</u>

Continued evaluation of the awards made with prior year funds. Developed and released the first electronic broad agency announcement (BAA) for the HBCU/MI FY 2002 solicitation. Previous years had been hardcopies only, although hardcopies of the announcement were available upon request. The solicitation closed on January 31, 2002. Receipts totaled 83 instrumentation proposals, 19 for undergraduate scholarships, and 6 proposals that were for graduate fellowships. The FY 2002 DoD HBCU/MI Infrastructure Support Program BAA is ninth series of solicitation s designed to enhance participation of minority institutions in defense research activities and to increase the number of graduate students, including underrepresented minorities, in science, mathematics, and engineering. The solicitation afforded the HBCU/MI community an opportunity to acquire instrumentation to enhance science, mathematics, and engineering programs and to facilitate the education of students in research areas important to the DoD. Fifty nine grants were awarded. The Services will execute 34 instrumentation and equipment grants ranging from \$50,000 to \$180,000 to enhance science, mathematics, and engineering education and/or research. Also

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supported are 19 undergraduate scholarships, and 6 graduate fellowships of \$15,000 per student for up to four years. The six graduate fellowships will augment research projects initiated under the Infrastructure Program in fiscal 2001.

The FY 2002 program also contains three congressional adds which resulted in three separate BAAs that are currently still open for competition due to Comptroller withhold and late release of the funds. The TCUs and HSIs awards will be made for instrumentation for research and education programs, undergraduate fellowships. As well as establish partnerships between Defense laboratories and TCUs and HSIs.

The Business/Tech Manuals Research and Development project will support the conversion of technical manuals associated with the U.S. Army Communications and Electronic Command Mobile Subscriber radio system to extensible Markup Language (XML) Document Type Definition (DTD) schema and convert all illustrations to vector format per the web Computer Graphics Metafile (CGF) profile of the International Standards Organization (ISO) format. Further, the project will develop a graphics-driven approach to navigate the technical manual from the system end item to the lowest replaceable unit; develop modular functional processes which can be embedded in an XML instance and provide the capability to provide parts ordering, wire tracing, full test document search, and troubleshooting; and finally, research leading edge technology solutions to current data management and development issues as it relates to Electronic Technical Manuals.

(U) <u>FY 2003 Plans</u>:

Continue evaluation of the awards made with prior year funds. In FY 2003, the HBCU/MI Infrastructure Program will establish 4 new Centers of Excellence in Science, Mathematics, and Engineering (SME) Education and Research. The objective is to increase the quality of education provided in SME and build HBCU/MIs that currently offer advanced degrees in SME. These awards will be for a period up to five years. Continue to build infrastructure through instrumentation and equipment awards.

C. Other Program Funding Summary: Not Applicable

D. Acquisition Strategy: Not Applicable