

**SECTION 233, FISCAL YEAR 2016 NATIONAL DEFENSE AUTHORIZATION ACT: STRATEGY FOR ENGAGEMENT WITH, AND SUPPORT OF THE DEVELOPMENT OF, STEM CAPABILITIES AT HBCUs/MIs**

**Organization Responsible for Strategy:** Air Force

**Point of Contact:** (SAF/AQRM, 571-256-0324)

**Scope:** (Component organizations covered by strategy) Air Force

**Authority:** 10 U.S.C. 2362; (Component's may add other applicable authorities)

**Objective:**

Engage with, and support the development of, scientific, technical, engineering, and mathematics (STEM) capabilities at Historically Black Colleges and Universities and other Minority-Serving institutions (HBCUs/MIs), including Tribally –Controlled Colleges and Universities, Hispanic-Serving institutions, Asian-American and Native American and Pacific Islander-Serving Institutions, and Predominantly Black Institutions

**Vision:**

To be jointly developed by work group

**Goals:**

1. Increase the success of HBCUs/MIs to compete for research (and other) funding
2. Increase mentoring opportunities between HBCUs/MIs and other research institutions (federal and non-federal)
3. Include HBCU/MI faculty in program reviews, peer reviews, and similar activities
4. Target undergraduate, graduate, and postgraduate students at HBCUs/MIs for inclusion in research or internship opportunities

**Objectives:** Objectives should be achievable within 3 years or less

To be completed by the Component,

1. Increase the total number of Air Force HBCU/MI program awards.
2. Increase research opportunities with HBCU/MIs in Air Force competency areas.
3. Maintain Air Force mentoring opportunities between HBCUs/MIs and other research institutions (federal and non-federal).
4. Expand inclusion of HBCU/MI faculty in Air Force program reviews, peer reviews, and similar activities.
5. Inform HBCU/MI undergraduate, graduate, and postgraduate students of Air Force research or internship opportunities.

**Assessment Approach:**

Progress against these goals will be determined annually with the baseline being FY16. The Air Force Office of Scientific Research (AFOSR) will be responsible for collecting and assessing metrics on HBCU/MI success in applying for grants across the entire AFOSR portfolio, including Defense University Research Instrumentation Program (DURIP), Multidisciplinary University Research Initiative (MURI), and the core Air Force basic research portfolio. The Air Force working group on STEM outreach will be responsible for monitoring all outreach activities and identifying best practices across all the activities. Program managers within the Minority Leaders – Research Collaboration Program will be responsible for monitoring expansion to additional technical competencies. Air Force science and technology leadership within the office of the Deputy Assistant Secretary of the Air Force for Science, Technology and Engineering (SAF/AQR) will review data and progress against goals (including discussions of changing targets or other mid-course corrections) during regularly scheduled management and strategy meetings.

<b>Objective</b>	<b>Activity</b> (multiple activities are expected for each objective)	<b>Target Audience</b>	<b>Schedule and Designation as Short-Term, Intermediate-Term, or Long-Term</b>
1. Increase the total number of Air Force HBCU/MI program awards	Increase the total number of grant awards to HBCU/MIs by 5% in FY2017 over FY2016.	All HBCUs/MIs	FY 2017
2. Increase research opportunities with HBCU/MIs in Air Force competency areas	Visit five universities to discuss Air Force research interests, faculty programs, post-doctoral research programs, and student internships and scholarship opportunities.	Targeted HBCUs/MIs	Annually
	Conduct workshops at three major STEM recruiting events to inform participants of Air Force research opportunities.	HBCU/MI academic staff attending annual conferences	Annually
	Monitor HBCU/MI basic research proposal success in core basic research program as well as special programs, such as Defense University Research Instrumentation Program (DURIP)	HBCU/MIs submitting proposals to AFOSR	Annually
3. Maintain mentoring opportunities between HBCUs/MIs and other research institutions (federal and non-federal).	Explore expanding Minority Leaders – Research Collaboration Program to include other technical competencies	All HBCU/MIs	FY2017
4. Expand HBCU/MI faculty participation in program reviews, peer reviews, and similar activities.	Increase HBCU/MI participation in AFOSR program reviews, peer reviews, and similar activities.	All HBCU/MIs	Long term-ongoing
	Explore expanding the Minority Leaders – Research Collaboration Program annual review in FY2017 to include other technical competencies.	HBCU/MIs participating in the ML-RCP	FY2017
5. Inform HBCU/MI	Maintain targeted recruiting at	HBCU/MI students and	Annually

<p>undergraduate, graduate, and postgraduate students of research or internship opportunities.</p>	<p>six minority-focused events, e.g. Society of Asian Scientist and Engineers (SASE), National Society of Black Engineers (NSBE) National Convention, Hispanic Engineer National Achievement Awards Corporation (HENAAC) Conference, Society of Hispanic Professional Engineers (SHPE) Conference, Minority Leaders-Research Collaboration Program Annual Program Review, and Society of Women Engineers (SWE) Conference.</p>	<p>minority students attending annual conferences</p>	
	<p>Increase the number of HBCU/MI graduate hires within the Air Force Research Laboratory by 3% over the next three years.</p>		<p>FY2019</p>