



The HBCU-STEM Fellowship Program

Let us Kick Start Your STEM Career!

ENTER

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**Historically Black Colleges & Universities
Science, Technology, Engineering & Mathematics
(HBCU-STEM)
Fellowship Program**

November 22, 2008

**Sheraton Grand
Dallas Fort Worth Airport
Irving, Texas**



Overview

- The Challenge
- The Educational Advancement Alliance, Inc.
 - EAA's Approach
 - EAA Programs
- The HBCU-STEM Fellowship Program
- Expectations
- Your Role as Administrators
- Questions



The Challenge

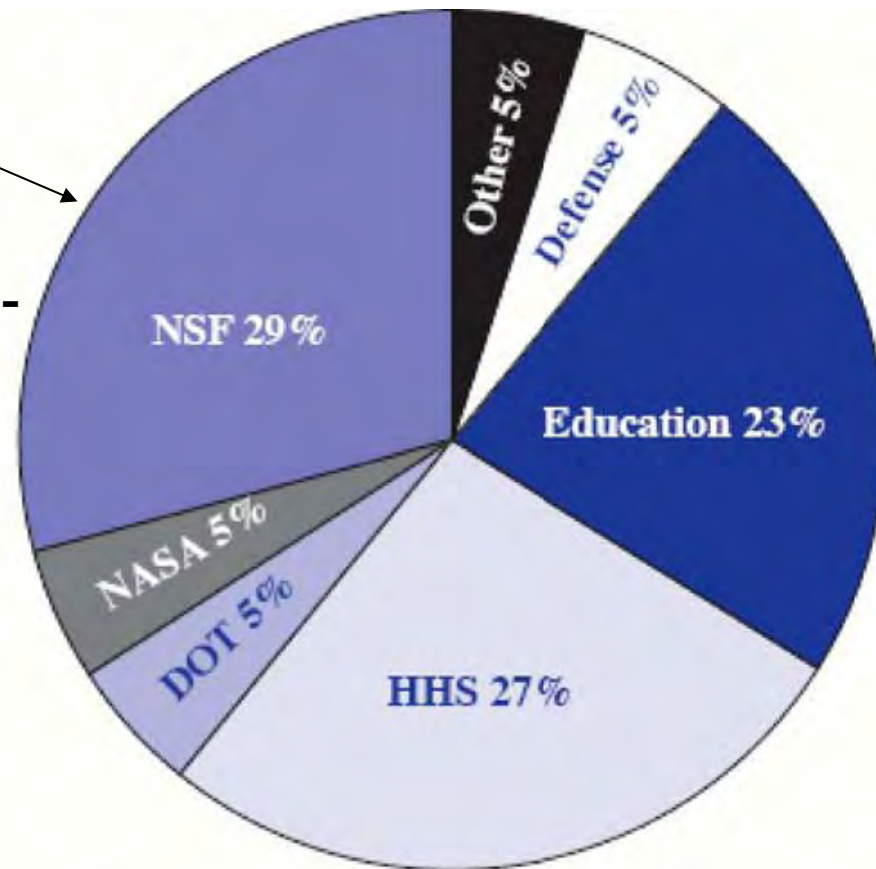
- U.S. technological competitiveness in a global economy is being challenged
- Only 3 out of every 100 entering college freshmen complete a degree in STEM
- The U.S. will require over 400,000 STEM professionals by 2015
- The President and Congress have committed billions of dollars to address the issue
- Minorities are severely underrepresented in STEM related schools, teaching disciplines and careers

The Challenge

Federal Programs that Promote STEM Education

According to a 2005 GAO Study -

- 13 federal civilian agencies
- **207** federal education programs
- 6 major program goals
- 4 main types of assistance
- 11 targeted groups





The Educational Advancement Alliance, Inc.

- Founded in 1990 as an educational organization committed to providing educational information and opportunities to underrepresented students of all ages in the Greater Philadelphia area
- Became a 501(c) 3 in 2002
- Possesses an extensive network of partnerships and collaborations with a vast number of educational, community, civic, business and professional organizations
- Accomplished track record for achieving its goal of providing students with the necessary information and preparation to achieve their objectives

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About EAA

Provides direct and indirect educational services to over 20,000 individuals through its programs (K-16) and activities that include:

- **After School Enrichment Program** (8 – 12 grade)
- **Learning Lab Mobile Science Bus**(4 - 6 grade)
- College Series
- Computing Center Initiative
 - 23 computing centers (day care centers, high schools, community centers)
- Annual Conference on Higher Education
- Scholarship & Fellowship Programs



After School Enrichment Program

- **One-on-one and small group tutoring for high school students in all major subjects, including foreign languages**
- **Free SAT and ACT Preparation courses for participants**
- **Grade-specific college preparation workshops**
- **Educational field trips and recreational activities**
- **Individualized advisement throughout the college admissions process**
- **Transportation to and from the program**
- **Scholarships and financial assistance for graduating participants entering college**



The Learning Lab

- **Fully-functioning, state-of-the-art mobile science lab**
- **Targets Philadelphia public elementary schools**
- **Augments science curricula at each school in an effort to ignite interest in various science disciplines**
- **Meets Pennsylvania educational standards in science**
- **Professional Development sessions held with teachers**
- **Partnerships with various science-related industries**
- **Special science-related activities sponsored year-round**



EAA Programs

STEM

(Science, Technology, Engineering & Math)

- Learning Lab Mobile Science Bus
- Annual Conference on Higher Education
 - Graduate Opportunities Conference
- Summer Enrichment Programs
 - ISSP, STI, Math Tech Summer Academy
- Weekend Exposure Activities
- Computing Center Initiative
- HBCU-STEM Fellowship





HBCU-STEM Fellowship Program

The program is administered by EAA and is sponsored by the National Nuclear Security Administration, a U.S. Department of Energy agency.

www.gradopp.org



The Fellowship Program

- \$20,500 scholarship paid directly to institution
- \$12,000 living stipend paid to the Fellow
- Institution must be in Pennsylvania, New Jersey or Delaware
- Field of study must be STEM
- Student must complete required program documentation
- Student must participate in EAA sponsored Winter Conference 2009





The Fellowship Program

- **Winter Conference 2009**
 - **Twenty-third annual graduate opportunities conference**
 - **Attended by over 700 students and administrators**
 - **Students must attend the Winter Conference 2009**
 - **Place: Sheraton Philadelphia City Center, Philadelphia, PA**
 - **Date: Thursday, Feb. 5 – Sunday, Feb 8, 2009**
 - **Graduate School Fair**
 - **Targeted HBCU-STEM Fellowship Program schools will be invited to participate**
 - **Universities (50 – 75) agencies, and organizations attend annually**

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The Fellowship Program

- Winter Conference 2009
 - All travel and lodging accommodations will be paid by EAA
 - Students must be accompanied by an administrator (1 administrator per 8 students)
- Summer Fellows Conference 2009
 - Students accepted into the fellowship program must attend the summer conference



The Fellowship Program

- Candidates for the HBCU-STEM Fellowship Program must:
 - Have completed a baccalaureate degree program from an HBCU on or after January 1, 2007
 - Be a U.S. citizen or permanent resident
 - Have gained admission into a Master's level program in STEM at a college or university in Pennsylvania, New Jersey or Delaware
 - Complete the HBCU-STEM Fellowship Program application packet and interview
 - Have not previously begun graduate studies
- **Application must be postmarked by May 31, 2009**



Targeted Schools To Date

Carnegie Mellon University
Delaware State University
Drexel University
Duquesne University
Fairleigh Dickinson University
Indiana University of PA
Kean University
Kutztown University of PA
Lehigh University
Montclair State University
New Jersey Institute of
Technology
Pennsylvania State University
Princeton University
Robert Morris College

Rowan University
Rutgers University
Seton Hall University
Shippensburg University of PA
St. Joseph's University
Stevens Institute of Technology
Temple University
University of Delaware
University of Medicine & Dentistry
of NJ
University of Pennsylvania
University of Pittsburgh
Villanova University
West Chester University of PA
Widener University

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What's Needed From Students

- Undergraduate research experience
- Introduction to advanced level software applications – math, computer-aided design (CAD), statistical, database, laboratory, etc.
- Increased experience with scientific/lab equipment; familiarity with scientific and technical publications
- Maximize networking opportunities
- Effective communications
 - Active listening
 - Persuasive speaking; know discipline terminology
 - Technical writing – research papers, grants, etc.
 - Dynamic presentation – public speaking, teaching, etc.



What's Expected From Targeted Institutions

- Committed faculty and staff
- Dedicated liaison to support students and communicate with EAA
- Comprehensive support services
 - Mentors
 - Counselors
 - Accessible advisors
 - Tutors
 - Tools
 - Financial resources



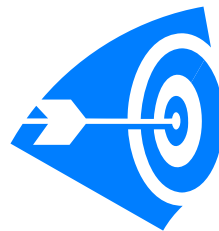
Why We Need You!

- Promote the Fellowship Program
- Continue to ensure students are meeting graduate requirements for STEM
- Assist in locating additional financial resources for students
- Identify a Single Point of Contact for each HBCU for purposes of this program
- Provide feedback



Summary

- Let's meet the challenge!
- Great opportunity to finance graduate education
- Encourage your students to apply to a targeted school
- Apply for fellowship early
 - Immediately after acceptance into a program





Questions

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