The HBCU-STEM Fellowship Program
Let us Kick Start Your STEM Career!

ENTER

Sponsored by NASA
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
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
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-relate 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
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
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
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<td><strong>Targeted Schools To Date</strong></td>
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<tr>
<td>Carnegie Mellon University</td>
<td>Rowan University</td>
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<td>Delaware State University</td>
<td>Rutgers University</td>
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<td>Drexel University</td>
<td>Seton Hall University</td>
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<td>Duquesne University</td>
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<td>Fairleigh Dickinson University</td>
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<td>Indiana University of PA</td>
<td>Stevens Institute of Technology</td>
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<td>Kean University</td>
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<td>Kutztown University of PA</td>
<td>University of Delaware</td>
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<td>Lehigh University</td>
<td>University of Medicine &amp; Dentistry of NJ</td>
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<td>Montclair State University</td>
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<td>New Jersey Institute of Technology</td>
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<td>Pennsylvania State University</td>
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<td>Princeton University</td>
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<td>Robert Morris College</td>
<td>Widener University</td>
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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

www.gradopp.org