



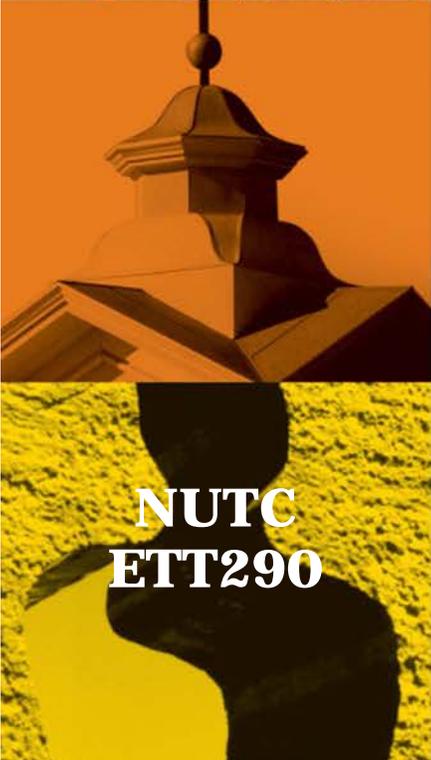
MISSOURI  
**S&T**

# CENTER FOR TRANSPORTATION INFRASTRUCTURE AND SAFETY

## **Minority Engineering Scholarships 2012**

by

Cecilia Elmore



**NUTC  
ETT290**

**A National University Transportation Center  
at Missouri University of Science and Technology**

## ***Disclaimer***

The contents of this report reflect the views of the author(s), who are responsible for the facts and the accuracy of information presented herein. This document is disseminated under the sponsorship of the Department of Transportation, University Transportation Centers Program and the Center for Transportation Infrastructure and Safety NUTC program at the Missouri University of Science and Technology, in the interest of information exchange. The U.S. Government and Center for Transportation Infrastructure and Safety assumes no liability for the contents or use thereof.

### Technical Report Documentation Page

1. Report No.  NUTC ETT290	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle Minority Engineering Scholarships 2012		5. Report Date  February 2014	
		6. Performing Organization Code	
7. Author/s  Cecilia Elmore		8. Performing Organization Report No.  Project # 00037305	
9. Performing Organization Name and Address  Center for Transportation Infrastructure and Safety/NUTC program Missouri University of Science and Technology 220 Engineering Research Lab Rolla, MO 65409		10. Work Unit No. (TRAIS)	
		11. Contract or Grant No.  DTRT06-G-0014	
12. Sponsoring Organization Name and Address  U.S. Department of Transportation Research and Innovative Technology Administration 1200 New Jersey Avenue, SE Washington, DC 20590		13. Type of Report and Period Covered  Final	
		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract  Scholarships for Minority Students Studying Engineering and Science: Support will make scholarships available to minority students interested in engineering and science and will increase significantly the number of minority students that Missouri S&T can recruit to its science and engineering programs. Recipients of scholarships will also be exposed to career opportunities in transportation.  <u>Minority Engineering and Science Program (MEP)</u> scholarships provide critical financial support for under-represented students majoring in engineering and science programs at Missouri S&T. MEP scholarship students receive professional and academic support through the close-knit MEP network of friends, mentors, and Missouri S&T staff. MEP has a rich 30 year tradition of sponsoring events, activities and organizations that ensure its students are prepared for personal and professional success.			
17. Key Words  student recruitment		18. Distribution Statement  No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.	
19. Security Classification (of this report)  unclassified	20. Security Classification (of this page)  unclassified	21. No. Of Pages  6	22. Price

## **Sponsored items and events for 2012-2013 UTC~~STUDENT DIVERSITY PROGRAMS**

### **Minority Intro to Technology & Engineering (MITE) June 5-10, 2012, June 19-24, 2012**

MITE is an on-campus week long summer program for traditionally under-represented minority students. Campers will participate in one- to two-hour sessions covering the work performed in the different fields of engineering. They include both experimental and applied work. In addition, orientation sessions will be held to discuss admission requirements and procedures; how and when to apply for scholarships and other forms of financial aid; student government and social organizations, and other campus resources

**40 ATTENDEES**

### **Scholarship~~~33 students July 8<sup>th</sup>~27<sup>th</sup> 2012**

#### **Hit the Ground Running (HGR) Summer Enrichment Program for incoming freshman**

The objectives of the pre-engineering summer program are:

1. To bolster and strengthen the pre-college preparation in mathematics, science, and English composition of minority students who have potential for engineering careers and to encourage them to enter such careers.
2. To provide opportunities for program participants to learn more about the career opportunities in engineering and science and technology.
3. To help make an adjustment to the rural and university environment.
4. To assist selected students through the baccalaureate degree with tutorial, scholarship, employment opportunities, and counseling help as needed.

This program is for all the Student Diversity Program (SDP) scholarship recipients. For three weeks, each year the SDP scholars take classes in Mathematics (at the appropriately determined level), English and chemistry. The benefits are tremendous, not only do the students have an academic head start when the fall semester begins, but they also become a team. Rigorous study prepares them for a demanding engineering curriculum, and they experience life in a dorm away from friends and family. Along with academics, scholars learn about career opportunities that await them once they earn their degree. Special seminars are hosted by industry representatives and engineering department chairs that focus on career and educational opportunities for minority students. The proven track record of this program on the Missouri S&T campus has sparked a similar program for minority freshman engineering students. Students are surveyed at the end of the program with regards to how their degree could contribute to transportation sustainability and future developments.

### **Fall Si Se Puede: November 9-12, 2012**

Society of Professional Hispanic Professionals annually coordinates ¡Sí Se Puede! This helps students to explore the career options Missouri S&T has to offer and gives them an inside look at real college life. It is an on-campus visit program for Hispanic and Latino students to explore a

future career in math and science. During their time at Missouri S&T the students will interact with members of the SHPE and NSBE chapters. Participants will also meet faculty and staff that volunteer their time to teach students about degree programs, career options, co-ops and internships, answer all their questions and more.

## **19 ATTENDEES**

### **Society of Hispanic Professional Engineers National Conference: November 14-18<sup>th</sup>, 2012, Fort Worth, TX**

With over 10,000 students attending the event each year it is an excellent opportunity to recruit minority students at both the undergraduate and graduate levels. The goal is designed to increase the awareness, participation, and excitement surrounding graduate school and the pursuit of higher education. Through the careful integration of planned events, students and professionals can learn about higher education opportunities and resources. Several new activities have been incorporated into the agenda that are designed to promote higher education, increase student participation, and emphasize academic and technical excellence.

## **16 ATTENDEES**

### **NSBE Fall Regional Conference November 9-11, 2012 Austin, TX**

This conference is the premier event for National Society of Black Engineer's Jr, Collegiate, and Alumni members of Region V to network and strive towards fulfilling the society's mission. Conference participants receive the full benefits of the conference through engaging workshops, competitions, career and Graduate School fairs, and networking opportunities that truly exemplify "excelling academically, succeeding professionally and positively impacting the community."

## **11 ATTENDEES**

### **UPCOMING EVENTS**

#### **Pre-College Initiative to be held February 15-18th, 2013**

The National Society of Black Engineers (NSBE) is the largest student-run, non-profit organization in the country. Its objective is to promote the recruitment, retention, and successful graduation of African-Americans in engineering, science and technology. NSBE serves as a vehicle to promote unity through programs that encourage academic excellence, perennial growth, and professional development. One of the objectives of the Missouri S&T-NSBE chapter is to encourage high school students to pursue careers in engineering, science, and technology and to consider Missouri S&T as a choice for their college home. During this on-campus visit program students will participate in a series of workshops, hands-on activities, an admissions seminar, and a civil engineering design project.

**Expected attendance~~~25 students**

**Society of Hispanic Professional Engineers Regional Conference:**  
**Late March, early April, 2013 location not stated yet**

This program helps college students develop and improve their pre-college outreach programs and improve the infrastructure of SHPE student chapters. Student leaders learn how to interact and network with SHPE's corporate supporters

**Expected attendance~~~5 students**

**Scholarship~~~ July 7-26<sup>th</sup>, 2013**

**Hit the Ground Running (HGR) Summer Enrichment Program for incoming freshman**

The objectives of the pre-engineering summer program are:

1. To bolster and strengthen the pre-college preparation in mathematics, science, and English composition of minority students who have potential for engineering careers and to encourage them to enter such careers.
2. To provide opportunities for program participants to learn more about the career opportunities in engineering and science and technology.
3. To help make an adjustment to the rural and university environment.
4. To assist selected students through the baccalaureate degree with tutorial, scholarship, employment opportunities, and counseling help as needed.

This program is for all the Student Diversity Program (SDP) scholarship recipients. For three weeks, each year the SDP scholars take classes in Mathematics (at the appropriately determined level), English and chemistry. The benefits are tremendous, not only do the students have an academic head start when the fall semester begins, but they also become a team. Rigorous study prepares them for a demanding engineering curriculum, and they experience life in a dorm away from friends and family. Along with academics, scholars learn about career opportunities that await them once they earn their degree. Special seminars are hosted by industry representatives and engineering department chairs that focus on career and educational opportunities for minority students. The proven track record of this program on the Missouri S&T campus has sparked a similar program for minority freshman engineering students. Students are surveyed at the end of the program with regards to how their degree could contribute to transportation sustainability and future developments.

**Expected attendance~~~25 students**