

**Society of Hispanic Professional Engineers**  
February 2010



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# SHPE/GEM

## **GEM GRAD Lab**

A PARTNERSHIP PROGRAM ADMINISTERED BETWEEN AHETEMS, INC. AND THE NATIONAL GEM CONSORTIUM

AHETEMS, Inc.  
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**ADVANCING HISPANIC EXCELLENCE IN TECHNOLOGY, ENGINEERING, MATH  
AND SCIENCE (AHETEMS)**

**GEM GRAD Lab.**

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**DESCRIPTION**

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The intent of this partnership initiative between the SHPE, Inc. and The National GEM Consortium and administered by the Advancing Hispanic Excellence in Technology, Engineering, Math and Science (AHETEMS) Foundation is to engage Hispanic undergraduate students in a year-long graduate preparation program that will help them develop a competitive academic profile for graduate admissions and the GEM Fellowship. The program consists of three-phases.

*Any student or professional may attend any of the GEM GRAD Lab sessions. Individuals applying and receiving the AHETEMS Travel Grant will be eligible to participate in the extended opportunities and must meet specific requirements outlined on Page 3.*

**PHASE I**

Phase I is the kick-off event - the GEM GRAD Lab at the 2010 SHPE Conference, on October 29, 2010, in Cincinnati, OH. This event provides qualified Hispanic applicants, who have an interest and inclination in pursuing an advanced technical degree, an intense graduate preparation training. On Day 1, students will attend the GEM GRAD Lab hosted by The National GEM Consortium. The GEM GRAD Lab is a series of sessions that focus on all the elements of the graduate school application. These sessions will address graduate funding, access and choice, letters of recommendation, the personal statement, and the value of mentoring from a Hispanic perspective. In addition, students will attend a Graduate School Hospitality Suite to meet current graduate students and speak with graduate program recruiters and faculty. On Day 2, students will take a GRE assessment, and review study and test-taking tips and strategies in preparation for the actual GRE test. Participants will also attend the Graduate Fair and have the opportunity to visit with over 40 graduate programs and funding sources.

**PHASE 2**

Over the course of the academic year, participants will be invited to be advised and mentored by faculty and staff from AHETEMS, Inc. and The National GEM Consortium to assure that students are making good academic progress and maintaining competitive academic standards for application to graduate school in fall 2011. Participants will be invited to establish an online profile with the National GEM Consortium at [www.gemfellowship.org](http://www.gemfellowship.org). Once students have registered online, guidance and resources will be provided throughout the year in reference to the personal statement, researching graduate programs, finding research opportunities and completing the GEM Fellowship application.

**PHASE 3**

The program will culminate with students invited to attend the GEM Conference in 2011 and mentored to submit their complete application for the GEM Fellowship. Travel to the GEM Conference will be provided on a limited and competitive basis. *In addition, students who complete the GEM GRAD Lab (attend all workshops) will be eligible to apply for a special GRE fee reduction waiver through GEM.*

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**2010 GEM GRAD Lab  
Tentative Agenda**

**FRIDAY, OCTOBER 29, 2010**

- 8:00 am – 9:00 am Continental Breakfast & Sign-In
- 9:00 am – 10:30 am Session 1: GEM: Why Graduate School
- 10:45 am – 12:15 pm Session 2: GEM: How to Apply to Graduate School
- 12:30 pm – 2:00 pm Graduate/Scholars Luncheon (**Invitation Only**)
- 2:15 pm – 3:45 pm Session 3: GEM: How to Fund Graduate School
- 4:00 pm – 5:30 pm Funding Panel: NSF, NASA, NIH, UNCFSP
- 5:45 pm – 6:45 pm Session 4: Panel: Voices from the Field
- 6:45 pm – 7:00 pm Closing/Evaluations
- 7:00 pm – 9:00 pm Graduate Hospitality Suite (**Invitation Only**)
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**SATURDAY, OCTOBER 30, 2010**

- 9:00 am – 10:00 am Getting Ready for the GRE Exam
- 10:00 am – 11:00 am Verbal Strategies
- 11:00 am – 12:00 pm Math Strategies
- 12:00 pm – 4:00 pm Graduate School and Career Fair  
*Students required to visit with at least 10 graduate schools*

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**AHETEMS TRAVEL GRANTS**

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AHETEMS Travel Grants will be awarded on a competitive basis to 40 qualified undergraduate students, who demonstrate a strong academic, research, teaching, and service record to attend the GEM GRAD Lab at the 2010 SHPE Conference in Cincinnati, OH.

The grant will include a travel stipend or voucher up to \$300. Students who receive the AHETEMS Travel Grant will be housed four to a room beginning **Thursday, October 28, 2010 and departing Sunday, October 31, 2010.** Recipients also receive a \$200 registration waiver pending completion of the program and requirements.

**ELIGIBILITY**

- SHPE member in good standing (*NOTE: Non-SHPE members may become member at time of application*)
- U.S. citizen or permanent resident
- Minimum 2.75 overall GPA
- Sophomore or Junior (Seniors, only if graduating in December 2011 or May 2012)
- Full-time enrollment (12 hours minimum)
- Pursuing a degree in science, technology, engineering or math, at an accredited college or university in the U.S. or Puerto Rico

**APPLICATION PROCESS**

Students interested in applying for an AHETEMS Travel Grant *and* participating in the year-long graduate preparation program must submit the following items:

- GRE/GRAD Lab Application
- 500-word essay addressing the applicant's research, teaching, and scholarship accomplishments, and graduate education and career goals as a Hispanic **student**
- Curriculum Vitae or Resume
- Transcript (unofficial copy will suffice)
- SHPE membership (*Non-members may complete their SHPE membership application online and pay the annual \$5 membership fee*)

**DEADLINE**

The complete application package must be **RECEIVED BY 11:59 pm EST, Friday, September 17, 2010.** Notifications will be announced by Friday, September 24, 2010. Applications may be emailed to graduate@shpe.org, faxed to (817) 272-2548 or mailed to AHETEMS, c/o GRAD Lab, 416 Yates Street, Rm. 619, Box 19019, Arlington, TX 76019-0019.

**CONFERENCE REGISTRATION**

Students are **strongly encouraged** to complete their online registration at oneSHPE.org to attend the conference, while they await notification of their selection for an AHETEMS Travel Grant.

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**TRAVEL GRANT RESPONSIBILITY**

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AHETEMS Travel Grant recipients are required to attend all the scheduled events of the GEM GRAD Lab. (*Attendance will be taken*). The travel costs will be **reimbursed** by AHETEMS, Inc. **ONLY** upon complete attendance of the event.. Participants who fail to attend the GEM GRAD Lab will not receive the travel grant.

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**CONTACT INFORMATION**

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For more information, please visit the AHETEMS Web site at [www.ahetems.org](http://www.ahetems.org) or call the AHETEMS Office at (817) 272-1116 or email [graduate@shpe.org](mailto:graduate@shpe.org). Information about The National GEM Consortium can be found at [www.gemfellowship.org](http://www.gemfellowship.org) or by contacting Michele Lezama, by phone at (574) 631-7774 or via email at [mlezama@gemfellowship.org](mailto:mlezama@gemfellowship.org).

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**THE NATIONAL GEM CONSORTIUM**

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*The National GEM Consortium fellowship programs span the entire recruitment, retention, and professional development spectrum. GEM's principal activity is the provision of graduate fellowships at the MS and Ph.D. levels coupled with paid summer internships. GEM also offers informational publications for graduate and undergraduate students. GEM is devoted to increasing access and success in engineering and science graduate education and practice.*

*GEM's program activities go beyond financial support by engendering student success in academic and professional environments. GEM has a solid success record in implementing effective programs to increase the recruitment, retention, and graduation of minority students through its three Fellowship Programs: MS Engineering, Ph.D. Engineering, and Ph.D. Science.*

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**AHETEMS, INC.**

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*Established in March 2004 as an independent 501(c)(3), the Advancing Hispanic Excellence in Technology, Engineering, Math and Science (AHETEMS) Foundation has been working exclusively to develop educational enrichment and academic outreach initiatives, for Hispanic students that extend throughout the pre-college to PhD pathway.*

*The AHETEMS Foundation is responsible for informing the public about technical careers, internships and educational opportunities; maintaining educational centers; and promoting the interest of students and professionals in educational and charitable pursuits. It has acquired a broad-based consistency for educational enrichment, recruitment and retention programs throughout the country. The AHETEMS educational programs are organized into three areas: Pre-College Programs, Undergraduate Programs and Graduate Programs.*

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**SHPE, INC.**

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*The Society of Hispanic Professional Engineers (SHPE) was founded in Los Angeles, California, in 1974. Their objective was to form a national organization of professional engineers to serve as role models in the Hispanic community and support student educational programs and provide scholarships in science, engineering and technology primarily to Hispanics college students. Today, SHPE enjoys a strong but independent national network of professional and student chapters. SHPE recognizes that community organization-based programs are among the most significant tools to influence the interest and capabilities of students in maximizing the educational benefits that academic institutions provide*

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**2010 GEM GRAD Lab Application**

Salutation: <input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms.	Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female		
Last Name:	First Name:		
Mailing Address:			
City/State/Zip:			
Phone Number:	Fax Number:		
Primary Email Address:			
College/University Attending:			
Field of Study:			
Classification: <input type="checkbox"/> Sophomore <input type="checkbox"/> Junior <input type="checkbox"/> Senior			
Citizenship: <input type="checkbox"/> US. Citizen <input type="checkbox"/> Legal resident <input type="checkbox"/> Other			
Expected Graduation Date:			
GPA (On a 4.0 scale):			
Career Goals: (Select all that apply)			
<input type="checkbox"/> Tenure-Track –Teaching Faculty at a College/University	<input type="checkbox"/> Administrative Position in College/University		
<input type="checkbox"/> Tenure-Track - Research Faculty at a University	<input type="checkbox"/> Administrative Position in Government		
<input type="checkbox"/> Teaching – K-12	<input type="checkbox"/> Management Position in Industry		
<input type="checkbox"/> Research Position at a College/University	<input type="checkbox"/> Executive Position in Industry		
<input type="checkbox"/> Research Position in government laboratory	<input type="checkbox"/> Policy Analyst - Government		
<input type="checkbox"/> Research Position in Industry	<input type="checkbox"/> Entrepreneurial		
<input type="checkbox"/> Administrative Position in College/University	<input type="checkbox"/> Other:		
Vegetarian: <input type="checkbox"/> Yes <input type="checkbox"/> No	Special Accessibility Needs:		
How many years have you been a SHPE member?			
<b>Ethnicity</b> (Choose all that apply)			
<input type="checkbox"/> Central American	<input type="checkbox"/> Cuban	<input type="checkbox"/> Dominican	<input type="checkbox"/> Mexican American
<input type="checkbox"/> Puerto Rican	<input type="checkbox"/> South American	<input type="checkbox"/> Spanish	<input type="checkbox"/> White/Anglo
<input type="checkbox"/> Black/African American	<input type="checkbox"/> Asian/Pacific Islander		
<input type="checkbox"/> Native American/American Indian -- Tribal Affiliation: _____			
<input type="checkbox"/> Other:			

**Conference Participation**

Do you need a hotel room? \_\_\_\_\_ YES\* \_\_\_\_\_ NO

*\*Registrants living within a 50 mile radius will not receive sponsored hotel accommodations*

Roommate Request? \_\_\_\_\_

*All students will be housed four to a room. **NO EXCEPTIONS.** No single rooms are available.*