

Society of Hispanic Professional Engineers
July 2011



SHPE/GEM

GRE/GRAD Lab

A partnership program administered between SHPE Foundation, Inc. and the National GEM Consortium

SHPE Foundation, Inc.
1444 Duke Street
Alexandria, VA 22314
www.shpefoundation.org
shpefoundation@shpe.org

SHPE, Inc.
13181 Crossroads Parkway North,
Suite 450
City of Industry, CA 91746
www.shpe.org

Society of Hispanic Professional Engineers Foundation

SHPE Foundation, Inc

2011 GRE/GRAD Lab

DESCRIPTION

The intent of this partnership initiative between the SHPE, Inc. and The National GEM Consortium and administered by the SHPE 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 SHPE Foundation 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 2011 SHPE Conference, on October 28, 2011, in Anaheim, CA. 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 SHPE Foundation, 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. 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.***

Society of Hispanic Professional Engineers Foundation
SHPE Foundation, Inc
2011 GRE/GRAD Lab

PROGRAM HIGHLIGHTS

Key Components: The GRAD Lab symposium will focus on providing students a perspective on the benefits on having a graduate degree in engineering or science.

- **Component 1: Honorary Lecture - "Hispanics and Latinos: The Engineers and Scientists of the Future" featuring Prof. Rafael Bras, Provost - Georgia Institute of Technology**
 - This lecture by distinguished research and educator, Prof. Rafael Bras, will present the prospects and future opportunities for Hispanics in the fields of engineering. One major focus will be the trajectory engineering is pointing towards in the 21st century and the contributions Hispanics can make to that enterprise.
- **Component 2: Why Graduate School?**
 - Corporate and academic professionals, who hold masters and doctoral degrees in engineering and science and who are from under-represented communities will hold a panel discussion on the benefits of a graduate education. Topics such as financial benefits, expansive career opportunities, information on benefits of a research career, and global competitive trends will be discussed.
- **Component 3: How to prepare for Graduate School?**
 - This panel session will have 3-4 panelists that will address these five central questions:
 - Is Graduate School for Me?
 - What is Graduate School like? (What do I expect?)
 - How is Graduate School different from Undergraduate?
 - How do I pay for graduate school? Given current loans, under-graduate bills, and family economic needs?
 - How do I apply for graduate school?
 - Self Assessment Questionnaire that would address the specific area that the student is currently in (undergraduate, community college-transitioning, graduate or graduate student)
 - Resources will be distributed, Graduate University Programs Manual, a three ring notebook with a comprehensive list of all GEM university contact information, majors/programs offered, financial aid information per school, and specific application requirements; ETS Resource Guides on taking the GRE and College Board tips on applying to graduate school
- **Component 4: Understanding the GEM Fellowship program**
 - A GEM staff member or alum will present the details on how to finance their graduate education through the GEM fellowship program. 1 or 2 pre-selected GEM employer members will present opportunities within their firm for graduate students through the GEM program.
- **Component 5: Voices from the field: Real Life Experiences**
 - Professionals from academia, corporate and government agencies will discuss
 - their fears as an undergraduate
 - their graduate school experience
 - their life as compared to colleagues with only an undergraduate degree
 - their work life, day to day experiences
 - their view of their current professional roles, and their career opportunities
 - their salaries, ability to pay off loans, and general quality of life

Society of Hispanic Professional Engineers Foundation
SHPE Foundation, Inc
2011 GRE/GRAD Lab

2011 GEM GRAD Lab
Tentative Agenda

Thursday, October 27, Location: Huntington A, B, C

Time	Workshop
7:00 – 8:00 AM	Continental Breakfast and Sign-In Location: Foyer
8:00 – 9:00 AM	Honorary Lecture
9:15 – 10:45 AM	Session 1: GEM: Why Graduate School?
10:45 – 11:00 AM	Break
11:00 AM – 12:15 PM	Session 2: GEM: How to Apply to Graduate School
12:20 – 2:00 PM	SHPE Foundation Graduate Luncheon Location: California C
2:00 – 3:45 PM	Session 3: GEM: How to Fund Graduate School
3:45 – 4:00 PM	Break
4:00 – 5:00 PM	Session 4: Panel: Voices from the Field
5:00 – 5:30 PM	Closing Evaluations
7:00 – 9:00 PM	SHPE Foundation Graduate Hospitality Suite Location: Capistrano A/B

Society of Hispanic Professional Engineers Foundation
SHPE Foundation, Inc
2011 GRE/GRAD Lab

SHPE FOUNDATION TRAVEL GRANTS

SHPE Foundation 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 SHPE Conference.

The grant will include a travel stipend or voucher up to \$300. Students who receive the SHPE Foundation Travel Grant will be housed four to a room beginning Thursday, October 27, 2011 and departing Sunday, October 30, 2011. 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 SHPE Foundation Travel Grant and participating in the yearlong 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 Vita 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, Sept 16, 2011.**

Notifications will be announced by Monday, September 26, 2011.

Applications may be emailed to graduate@shpe.org, faxed to (703) 778-7786 or mailed to SHPE Foundation, c/o GRAD Lab, 1444 Duke Street Alexandria, VA 22314.

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 SHPE Foundation Travel Grant.

Society of Hispanic Professional Engineers Foundation
SHPE Foundation, Inc
2011 GRE/GRAD Lab

TRAVEL GRANT RESPONSIBILITY

SHPE Foundation Travel Grant recipients are required to attend all the scheduled events of the GRE/GRAD Lab. (*Attendance will be taken*). The travel costs will be **reimbursed** by SHPE Foundation, Inc. **ONLY** upon successful attendance of the event. Participants who fail to attend the GRE/GRAD Lab at the SHPE Conference will not receive the travel grant.

CONTACT INFORMATION

For more information, please visit the SHPE Foundation Web site at www.shpefoundation.org or call the SHPE Foundation Office at (703) 373-7930 or email graduate@shpe.org. Information about The National GEM Consortium can be found at www.gemfellowship.org or by contacting Michele Lezama, by phone at (574) 631-7774 or via email at mlezama@gemfellowship.org.

THE NATIONAL GEM CONSORTIUM

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.

SHPE FOUNDATION, INC.

Established in March 2004 as an independent 501(c)(3), the SHPE Foundation (formally AHETEMS) has been working exclusively to develop educational enrichment and academic outreach initiatives, for Latinos/as, that extend throughout the pre-college to PhD pathway.

The SHPE 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 SHPE Foundation educational programs are organized into three areas: Pre-College Programs, Undergraduate Programs and Graduate Programs.

SHPE, INC.

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.

Society of Hispanic Professional Engineers Foundation
SHPE Foundation, Inc
 2011 GRE/GRAD Lab

2011 GRE/GRAD Lab Application

Salutation: <input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Miss		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:	
T-shirt size: <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> XL <input type="checkbox"/> XXL		How many years have you been a SHPE member?	
Ethnicity (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 --	<input type="checkbox"/> Other:

Conference Participation

Conference Departure Date _____

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.