



University of Southern California
Women in Science and Engineering Program (WiSE)
www.usc.edu/wise

Welcome Back and Happy New Year!!!

WiSE Program Upcoming Deadlines

To see all the USC WiSE Grant Programs, including ongoing grants without specific deadlines, please visit:
<http://www.usc.edu/programs/wise/programs/>

Spring 2010 Undergraduate Research Grants

College Deadline: Tuesday, January 18, 2011

Fellowship Awards for Spring offer \$2,500 (\$2,000 for the student and \$500 for advisor support) and are intended to familiarize exceptional undergraduate students in the sciences, math and engineering with laboratory research and link them with a mentor early on.

To apply and get more information, please visit the WiSE website: [Undergraduate Research Grants](#).

WiSE Support for Facilitating Diversity in Faculty Searches

Deadline: Tuesday, January 18, 2011

The WiSE Program provides competitively awarded support to WiSE-eligible departments at USC that propose and implement creative ideas for "casting the net widely," thus increasing the representation of women in science and engineering faculty searches.

Please visit our website for more information: [Facilitating Diversity in Faculty Searches](#)

WiSE Major Support for Current Faculty

Deadline: Thursday, January 27, 2011

This competitive program offers awards of up to \$25,000 and is aimed at offsetting subtle biases, barriers, and career interruptions that have been shown to hinder the advancement of women faculty in science and engineering at research universities.

Please visit our website for more information: [Major Support for Current Faculty](#)

Calendar: WiSE Networking Meetings

WiSE Faculty Networking Meetings

Meetings held the last Thursday of the month at 12pm in HNB 107

- Thursday, January 27, 2011
- Thursday, February 24, 2011
- Thursday, March 31, 2011

Bring your own lunch; cookies, coffee, and tea provided

Calendar: Other Events

USC Center for Women and Men 7th Annual Women's Retreat February 11-13, 2011

Application Deadline: January 21, 2010

The retreat is free and open to all undergraduate and graduate women who are interested in a fun and empowering weekend of activities and workshops. The retreat will cultivate leadership skills and foster friendships, while keeping women's concerns at the forefront.

If you are interested in participating in the retreat, please download the application [here](#). If you have any questions contact Kyra Norsigian at cwm@usc.edu or call (213) 740-4900.

6th Annual Undergraduate Women in Physics Conference

January 15-16, 2011 at USC

- Talks on various topics of physics
- Discussion groups on women in physics
- Learn about graduate studies and careers
- Meet physics students from several universities
- **Registration and meals Free!**
- Travel and lodging funds available

Registration information can be found at http://physics.usc.edu/~wiphys/conference11/main/Home_1.html

AWIS LAVC Events

- **January 11: Second Tuesdays Coffee Club**

Two different locations:

- UCLA: Synapse Cafe (Gonda Building), 3pm; contact: Sophia Tsai 323-381-9672
- USC/Grifols/LA County Works: Starbucks (1131 S. Fremont Ave., Alhambra, CA 91803), 5pm; contact: Tracy Blois 619-277-2059

For more info: <http://www.awislavc.org/Home/social-events/monthlycoffeeclub-2ndtuesdayofthemoth>

- **Seminar: Careers in Clinical Trials**

Thursday, January 20, 5:30pm

- "Career Opportunities in Clinical Research: You don't have to have an M.D. degree to have a satisfying and rewarding career in healthcare," Presented by Rebecca Anderson, Ph.D.
- Location: Amgen B28 Conference Center (28-B-A3)
- Please RSVP [here](#). Phone contact: Tracy Blois at 619.277.2059

- **Welcome Back Networking Event**

Friday, February 4, 5:30-7:30pm

- AWIS-LAVC is planning a fun filled happy hour at the martini lounge "Lola's" on Friday 2/4/11 from 5:30 - 7:30 pm. \$5.00 martinis and \$5.50 happy hour appetizer specials.
- Address/ phone: Lola's, 945 N Fairfax Ave., West Hollywood, CA 90046, Phone: 323.654.5652
- Please RSVP [here](#).

If you have any questions about any of these events, email webadmin@awislavc.org or president@awislavc.org or visit www.awislavc.org.

From USC Viterbi Women in Engineering (WIE)

Give yourself the gift of MentorNet!

The Viterbi School of Engineering has partnered with MentorNet, an e-mentoring network that provides an outlet for matching undergraduate women with mentors from the STEM (science, technology, engineering and math) fields. This is an excellent opportunity to begin developing relationships with industry and/or academic contacts that may be good mentors while an undergraduate at Viterbi. There are over 1,300 registered mentors on MentorNet from a variety of companies and areas within engineering.

This service is completely **FREE** for Viterbi students and only takes a few minutes to fill out your profile. Go to MentorNet and complete your profile today! If you have any questions, contact viterbi.wie@usc.edu.

"Spark" Seeks USC Volunteers to Mentor 7th & 8th Graders

Spark is a non-profit that places middle school kids in apprenticeships with professionals from a wide range of fields (www.sparkprogram.org). The organization has had a great track record with youth in the Bay area and they recently expanded to southern California.

Spark is currently looking for volunteers in the engineering and computer science fields to spend two hours per week this spring (March through June) with a 7th or 8th grader. The students would come to your office or workplace once a week and learn about what it's like to be a professor, a computer programmer, a robotics engineer... or you can fill-in-the-blank here! USC students and alums would make great potential apprentice teachers. This semester we have apprenticeships with a professor in the USC Math Department as well as with a professor in the School of Social Work, and we hope to expand our partnership with USC students, professors, and alums! We are happy to come to your office and make a presentation to introduce Spark and provide you with more information about our program.

If you -- and/or your students and colleagues -- would be interested in contributing please contact Ben Allen at 310-346-9826, ballen@sparkprogram.org or Jahan Boulden at 310-291-3900, nboulden@sparkprogram.org.

ASEE Call for Award Nominations

Nomination Deadline: January 15, 2011

ASEE is currently seeking nominations for National and Society awards that will be presented at the ASEE Annual Conference & Exposition Awards Banquet in Vancouver, BC, Canada in June 2011. Self nominations are also welcomed for many awards. Two awards particular to WiSE:

DuPont Minorities in Engineering Award

The Award: The award is endowed by DuPont and consists of a \$1,500 honorarium, a certificate and a grant of \$500 for travel expenses to the ASEE Annual Conference.

The DuPont Minorities in Engineering Award is intended to recognize the importance of student diversity by ethnicity and gender in science, engineering and technology. The award is conferred for outstanding achievements by an engineering or engineering technology educator in increasing student diversity within engineering and engineering technology programs. Further, the award recognizes engineering or engineering technology educators who, as part of their educational activity, either assume or are charged with the responsibility for motivating underrepresented students to enter and continue in engineering or engineering technology curricula at the college or university level, graduate or undergraduate. Candidates must demonstrate leadership in the conception, organization and operation of pre-college and college activities designed to increase participation of underrepresented students in engineering or engineering technology. This should be evidenced by increases in enrollment and graduation rates of underrepresented students. All engineering educators on the faculties of U.S. engineering or engineering technology colleges are eligible.

Sharon Keillor Award for Women in Engineering Education

The Award: This award recognizes and honors outstanding women engineering educators. The award consists of an honorarium of \$2,000 and an appropriately inscribed plaque which is presented annually at the ASEE Annual Conference.

Eligibility: The award is to recognize and honor a woman engineering educator who has an outstanding record in teaching engineering students, and reasonable performance histories of research and service within an engineering school. Nominees will hold an earned doctoral degree in an engineering discipline, or in an engineering related field of natural science, including mathematics, and will have at least five years of teaching experience in an engineering school.

Previous Award Winner: USC's Alice C. Parker, 2009

For the 2011 awards, only hardcopy nominations will be accepted. For that reason, electronic award and Fellow Member nomination forms will not be available on our web site. A copy of the forms for hardcopy nominations can be downloaded from our web site at <http://www.asee.org/member-resources/awards/guidelines/awards-nomination-guidelines> or you may contact us to request them.

A list of awards that are offered, including nomination guidelines, are also available at <http://www.asee.org/member-resources/awards>. Consider nominating one or more deserving colleagues for an award.

IIASA Young Scientists Summer Program 2011 (Graduate Students)

Program Dates: June 1 – September 1, 2011

Application Deadline: January 17, 2011

Each summer, the International Institute for Applied Systems Analysis (IIASA), located in Schloss Laxenburg near Vienna, Austria, hosts a selected group of graduate students, primarily doctoral, from around the world in its Young Scientists Summer Program (YSSP). These students work closely with an IIASA senior scientist mentor on a project proposed by the student, related to his or her graduate research. **Fellows selected by IIASA will receive funding to cover travel to IIASA and a modest living allowance.**

IIASA is an international institution, supported by the U.S. and 15 other member nations, engaged in scientific research aimed at providing policy insight on issues of regional and global importance in fields such as Energy, Transitions to New Technologies, Advanced Systems Analysis, Ecosystem Services and Management, Mitigation of Air Pollution and Greenhouse Gases, Evolution and Ecology, and World Population.

Further program info: <http://www.iiasa.ac.at/>. Applications: <http://www.iiasa.ac.at/yssp/register/>.

General Questions: Sheila Poor, YSSP Coordinator poor@iiasa.ac.at, U.S. contact: Margaret Goud Collins, Program Director for the U.S. Committee for IIASA, National Academy of Sciences IIASAyssp@nas.edu

**Polymers @Case Research Experience for Undergraduates (REU)
Case School of Engineering , Case Western Reserve University
Program Dates: May 23 – July 29, 2011**

Application Deadline: February 1, 2011

Jointly hosted by the Department of Macromolecular Science and Engineering & the Center for Layered Polymeric Systems (CLiPS)

- \$6000 stipend
- Research areas: polymer nanocomposites, layered materials, functional and responsive systems, high performance materials, biomedical devices, polymer rheology and processing
- Professional development: polymer fundamentals, communication skills, ethics, industrial visits

Contact: Prof. LaShanda Korley, Prof. David Schiraldi, reu-polymers@case.edu

Website: http://polymers.case.edu/highlights/undergrad_summer.htm

**Summer 2011 Fluid Power Scholars Program for Undergraduates
Fluid Power Institute at the Milwaukee School of Engineering (MSOE)
June – August, 2011**

Application Deadline: February 1, 2011

The Fluid Power Scholars Program is a collaborative effort between the Center for Compact and Efficient Fluid Power (CCEFP) and companies in the fluid power industry who are corporate members of the CCEFP. This highly selective summer program identifies and connects the very best undergraduate engineering students across the United States to the fluid power industry with the purpose of training the next-generation of fluid power leaders.

This is a highly competitive program, open to undergraduates who have successfully completed at least two years in an accredited engineering program in the United States. The Scholars program begins with an intensive three-day instructional program in fluid power, taught at the Fluid Power Institute at the Milwaukee School of Engineering (MSOE), and follows with internships in the fluid power industry. The 2011 Fluid Power short course at MSOE will be held early June 2011. Students should expect to spend 10-11 weeks as a participant in this program. Up to ten undergraduate students will be selected as Fluid Power Scholars by a committee of faculty and industry representatives. In addition to their paid internships, scholars will receive stipends for travel and living expenses associated with their work at MSOE.

For more information and to apply: <http://www.ccefp.org/get-involved/students/fluid-power-scholars-program>

CCEFP: <http://www.ccefp.org>

Cornell University REU Programs

2011 LSAMP Summer Undergraduate Research Program accepting applications

Program Dates: June 5 - August 13, 2011

Application deadline: March 1, 2011

CU LSAMP-R was developed to aid in the retention of traditionally underrepresented minority groups in the sciences, technology, engineering and mathematics (STEM). It is an all expense paid summer research opportunity that provides undergraduate participants with the opportunity to work with distinguished faculty and staff as well as network with others in their field of interest through weekly luncheons.

Undergraduate students, interested in gaining a deeper understanding in an engineering-related field, have the opportunity to conduct and present research over a ten-week duration under the auspices of a Cornell Engineering faculty research mentor. Through this one-on-one partnership, participants will gain theoretical knowledge and practical training in academic research and scientific experimentation.

CU LSAMP-R offers participants:

- Research stipend of \$3,400
- Round-trip travel stipend up to \$300 for students living outside of Ithaca, NY
- Double room in a residential hall
- Campus bus pass or a campus parking pass
- Access to state-of-the-art laboratories, libraries, computer/study lounges, etc.

Please visit www.engineering.cornell.edu/lsamp for more information and to apply. **Inquiries:** Jami P. Joyner, Diversity Programs, Cornell University, College of Engineering, 607.254.5202, Jami.Joyner@cornell.edu.

...Cornell University REU Programs

Summer Research at Cornell University: Cornell Center for Materials Research

Program: June 6-August 12, 2011

The Cornell Center for Materials Research is offering a special summer research program with a stipend valued at \$4000, room in one of Cornell's on-campus dorms and additional funds for travel (non-CU students only).

During the ten-week period, students will work with Cornell faculty on interdisciplinary materials research projects involving chemistry, physics, materials science and engineering disciplines. Students will also participate in an organized program of lectures, mini-courses (e.g. electronics, microscopy), laboratory visits and a variety of recreational activities.

- Open to Fall 2011 undergraduates who are US Citizens or permanent residents.
- Selection will be based on academic standing and faculty recommendations.
- Minority and female candidates are strongly encouraged to apply.
- All chemistry, physics and engineering majors are welcome to apply.
- Program includes stipend which covers housing, but does NOT cover food.

NSF grant sponsors US participants for the Women's International Research Engineering Summit (WIRES2) in Orlando, Florida

March 31-April 2, 2011

The upcoming WIRES2 (www.wiresnetwork.org) summit will focus on three research areas: engineering sustainable systems to deliver energy, clean water or health care. The WIRES summits are international summits for women who are interested in pursuing international collaborative researching opportunities. The main objective of these summits is to enable meaningful and sustainable research exchanges between female engineers from around the world while identifying issues faced by females pursuing careers in engineering that could benefit from a global strategy. The summit will be hosted by University of Central Florida in Orlando, Florida. Because of the funding from the National Science Foundation and corporate sponsors, there is no conference fee and there are travel grants available for US female participants. If you are interested in attending the summit or want more details, apply at our web site: www.wiresnetwork.org (click on the "Apply Now" button).

Some of the goals of WIRES2 are to:

- Provide an opportunity to create personal, sustainable relationships among female engineers that will lead to collaborative research efforts.
- Identify common issues and provide a clear, visible pathway for females to pursue international collaborations.
- Identify methods of securing funding for international collaborations from federal agencies, international sources, the private sector, foundations, etc.
- Generate a database of female faculty who are interested in conducting international research.

Mary Lynn Realff marylynn.realff@ptfe.gatech.edu and Pamela McCauley-Bush

Institute for Broadening Participation

Grad and Undergrad Programs funded by NSF and NASA

A variety of internships, fellowships, and scholarships nationwide in a wide range of STEM and related disciplines.

• For Undergraduates:

Paid Summer 2011 Undergrad Research Placements:

Over 400 programs - REU and Other Summer Research Opportunities for Undergrads

<http://www.pathwaystoscience.org/Summerresearch.asp>

• For Financial Support in Graduate School Opportunities:

Bridges, GK-12, IGERT and NSF Grad Research Fellowship programs provide generous stipend and tuition support for students through the National Science Foundation:

<http://www.pathwaystoscience.org/Grad.asp>

• For Postdoc Opportunities:

http://www.pathwaystoscience.org/Postdocs_portal.asp

• For NASA-supported internships, fellowships and scholarships:

<http://intern.nasa.gov/>

...Opportunities

Kellogg Center for Biotechnology Executive Education course 2011 April 11-15, 2011

BUSINESS FOR SCIENTISTS is designed to introduce scientists to business concepts and industry specific tools and frameworks. Basic knowledge in accounting, strategy, finance, and management will be covered and its relevance applied to the biomedical sector. The course will enable you to think of how innovation moves from bench to market.

For more information: <http://www.kellogg.northwestern.edu/biotech/execed/scientists.htm>,
or contact Jeanne Laseman, Program Manager, 847.491.5540, j-laseman@kellogg.northwestern.edu.

NSF Announcement: NSF Graduate Research Diversity Supplement Awards

Follow this link to read about an opportunity from NSF to broaden the participation of underrepresented students in Ph.D. programs in engineering through supplements to current research grants funded by the divisions in the Directorate for Engineering (ENG).

NSF 11-013_Dear Colleague Letter: Graduate Research Diversity Supplement:
http://www.nsf.gov/pubs/2011/nsf11013/nsf11013.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

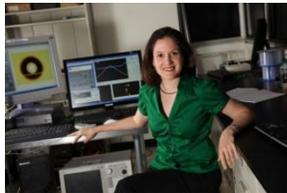
News & Articles of Interest

NEWS at USC

To see the USC WiSE News archives, please visit www.usc.edu/programs/wise/news/

Sparked by St. Mary's physics class, former Memphian is blazing new trails in science

Memphis Commercial Appeal, 1/4/11



“While a junior at St. Mary's, Andrea Armani fell in love with physics during Joan Burr's physics class. Now one of the nation's top young researchers, she is trying to inspire more women to be scientists and engineers.”

[Click here for the complete story.](#)



← Assistant Professor of Chemical and Materials Science Andrea Armani got to meet President Barack Obama last month when she visited the White House as one of 85 recipients of the Presidential Early Career Award for Scientists and Engineers, also including Assistant Professor of Electrical Engineering Michelle Povinelli.

Congratulations, Andrea and Michelle! →



Other News & Articles of Interest

Schelkin opens up educational opportunities

Community Advocate, 12/17/10

“A model for young women seeking education and careers in science and math, Larisa Schelkin not only has worked tirelessly as an engineer and manager, she serves as the CEO, president and is the co-founder of the Diversity and Outreach in Math and Engineering (DOME) Foundation.”

[Click here for the complete story](#)

...Other News & Articles of Interest

How I Made It: Marissa Mayer, Google's champion of innovation and design

Los Angeles Times, 1/2/11

“She joined the search company in its infancy, becoming its 20th employee and first female engineer. Now no product — including Gmail and Google Earth — is released without her OK.”

The Times describes Mayer as a "Renaissance woman" who is "first and foremost a geek" but is also an athlete, world traveler and arts enthusiast. "I didn't want to lose my sense of myself in my profession," Mayer said. "Our country in particular - and the whole world - has a real challenge in bringing more women into engineering and technical fields. It's good to show that you don't need to sacrifice your sense of femininity because you are engineer." The Times relates Mayer's "advice to women and girls" about entering the sector, and her career philosophy.

[Click here for the complete story.](#)

Keeping Women in Science on a Tenure Track

New York Times, 1/5/11

“More women are obtaining Ph.D.’s in science than ever before, but those women — largely because of pressures from having a family — are far more likely than their male counterparts to “leak” out of the research science pipeline before obtaining tenure at a college or university.”

[Click here for the complete story.](#)