

Cornell SWEMAIL Academic Year 2008-2009
Week of January 25, 2009
Society of Women Engineers

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None at this time!

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For a complete calendar of Cornell SWE's Events, visit us at:
<http://swe.cornell.edu/calendar.html>

SWE Events:

1. SWE General Body Meeting

The first general body meeting will be on Feb. 4th in Phillips Lounge (all meetings for the rest of the semester will be the FIRST Wednesday of the month, in Phillips Lounge). Come join us for food and announcements.

2. Take Pictures at SWE Events!

Hi everyone,

I am a publicity chair for SWE this year and am responsible for writing a newsletter about the various SWE events this semester. If any of you happen to volunteer at an info session or attend any other interesting event, I would really appreciate it if you took a camera with you! Please email me (ng262) any pictures you may have or just write me a sentence or two about what happened and what you did. This would be a great way for me to keep up with what everyone is doing for SWE! Thanks a lot!!

Natasha

3. Message from the Professional Development Committee

Hi SWE members,

The Professional Development Committee is planning an Interview Panel Event for the spring. This is a workshop that is designed to help current Cornell students while interviewing for companies. If anyone has sample interview questions or any tips for answering interview questions, please email them to mj299@cornell.edu. Any tips or advice would be helpful and greatly appreciated.

Thank you!

Sincerely,

Madhu Jayakumar

4. First Robotics Junior Lego League Event

Volunteer at this fun LEGO-themed science event for 6 to 9 year olds. Information on last year's event is available here: http://www.cnf.cornell.edu/cnf_jrfl.html. Lunch and dinner will be provided. Email Nicole (ncr6) to sign up!

Date: Saturday, January 31, 2009

Time: Any time between 11 am – 4 pm

Research, Internship, Training, & Employment

5. NYSE seeking technologists

Hi, the NYSE is looking for bright technologists to join our 2009 technology development program. This is a terrific program that I'm sure your club members will find to be a great opportunity. I have attached the job description as well as a link to our website. Anyone interested is invited to email their resumes to dreese@nyx.com.

Thank you!

6. Morgan Stanley: Technology Summer Job 2009 Technology Summer Program

Technology Summer Program Overview: The 10-12 week Technology Summer Program is designed to develop highly motivated junior technologists who partner with the business units to solve complex problems through the appropriate use of technology. The program commences with an introduction to the securities business and the Morgan Stanley Technology division. An overview of the Morgan Stanley technical environment, systems and infrastructure is provided. Throughout the program, Summer Interns may enroll in additional on-site training classes to sharpen their skills in the technologies relevant to their internship.

A weekly speaker series allows Summer Interns the perfect forum to learn and discuss emerging trends and developments in technology and finance with senior managers representing the Firm. Smoothing the transition from classroom to the corporate environment, Summer Interns are paired with Morgan Stanley technologists who serve as mentors. In many instances, mentor relationships continue well beyond the end of the program. Moreover, frequent social activities throughout the program allow for networking opportunities with Technology officers, associates and peers.

Duties and Responsibilities: Technology Summer Interns are recruited and placed in a specific development or infrastructure team for the duration of the internship. They solve business problems that are unique to a market leading institution using innovative technology. Over 50,000 employees and many customers need easy access to our backend platforms. Our software is developed on Windows, Unix and Linux, using Java, C++, C# and Perl. Our developers leverage third-party infrastructure as well as infrastructure developed in house -- these include relational databases, global XML/SOAP messaging infrastructure, high-availability clusters, and massively scalable distributed systems. Some projects of our former interns include working on our enterprise portal, wireless access, or components of our many trading and risk reporting systems using various technologies such as .NET, JSP, Java Servlets and SOAP.

Summer Interns receive an invitation to interview for a full-time position as a Morgan Stanley technologist in the Technology Training Program. Summer Interns who have excelled in the program but will not be graduating in the upcoming year may be invited to participate in the following year's summer program. Ultimately, the Technology Summer Program provides a solid foundation on which to build a career in technology at Morgan Stanley.

Qualifications: BS and MS in Computer Science, Electrical Engineering, Mathematics, Physics or related science and engineering disciplines preferred. We look for excellent problem-solving skills and the ability to adapt to a dynamic and multifaceted environment where business and technical skills are intermingled. In addition, we look for strong communication skills, the ability to work and interact with others, English proficiency and a strong academic background (a minimum GPA of 3.0/4.0). TO BE CONSIDERED, ALL CANDIDATES ARE REQUIRED TO APPLY ONLINE AT www.morganstanley.com

7. The D. E. Shaw Group Application Deadline January 26

There are some financial firms where technology doesn't take a back seat.

Headquartered in New York City, The D. E. Shaw group is a highly successful investment and technology development firm with an international reputation and a decidedly different approach to doing business. We offer a stimulating work environment and colleagues from the strongest technical programs in the world. Our team includes Putnam Fellows, International Math Olympiad medalists, patent holders, and hundreds of people passionate about CS, EE, physics, and math. They're not conventional "financial types," but then again, neither are we.

All interested Cornell students are invited to apply for permanent positions and summer internships with our firm. To apply for an on-campus interview for our Quantitative Analyst or Software Developer position, please log on to CareerNet (<http://cornell.erecruiting.com/er/security/login.jsp>) by January 26. For all positions, you may also apply anytime by sending a resume and cover letter to jobs@deshaw.com.

Our work environment is challenging but surprisingly flexible-from the clothes you wear to the time you get to the office, it's pretty much up to you. And we compensate our extraordinary people extraordinarily well.

Sincerely,

Strategic Growth
The D. E. Shaw group
www.deshaw.com

8. National Science Foundation Science & Technology Centers 2009 Summer Undergraduate Internship Programs

Dear Prospective Candidate,

We would like to invite you to apply to the NSF-STC Summer Undergraduate Internship Program. The National Science Foundation Science and Technology Centers (STCs) offer paid summer internships at our seventeen centers, located at prestigious universities around the United States. These summer internships provide undergraduates an

opportunity to conduct research in a graduate school setting in the following fields: 1) biological sciences, 2) computer and information sciences, 3) engineering, 4) geosciences, and 5) mathematical and physical sciences.

These summer research opportunities are fully funded and are an excellent way to gain a competitive edge toward graduate school. The centers are currently accepting applications for the 2009 Summer Programs. Deadlines are rapidly approaching and I would like to encourage anyone interested to apply. For more information on participating Centers and their application process and deadlines please access our website at www.nsfstc.org.

If you have any questions, please feel free to contact me via email at wuehara@cens.ucla.edu. Thank you for your time, and I look forward to seeing your application.

Sincerely,

Wesley Uehara
Recruiting Manager
NSF-Science & Technology Centers

9. Solar Power Applications Contest for Cornell National Society of Women Engineers

I wanted to personally invite the Cornell Society of Women Engineers to participate in SopoApps. I was hoping you can help by participating and spreading the word. There are ten key categories including, process heating, industrial, agriculture, health care, water, thermal AC, commercial, hospitality, power and innovation, and the winner of each category will receive \$5000.00 each, for a total of \$50,000.00. You may participate individually or in groups. The Contest period ends March 4, 2009 and we will announce the winners at Renewable Energy World Conference and Expo North America in Las Vegas, NV March 10-12, 2009. Would it be possible to circulate this announcement to SWE Members? It is only by having support from industry experts such as yourself can we hope to make CSP common place.

More information on Sopogy:

Wall Street Journal Story on Sopogy: <http://sopogy.com/blog/2008/06/30/wall-street-journal-alternative-state/>

Cnet Story on Sopogy: <http://sopogy.com/blog/2008/07/15/giant-solar-thermal-are-mainframe-computers-sopogy-is-the-personal-computer/>

INSTRUCTIONS on how to participate:

To complete registration, you need to go to www.SopoApps.org and create an account by

clicking on the LOGIN FORM BOX on the right. Once you've created an account, you may directly upload your project packages. The packages must contain an 1. Introduction, 2. Drawing(s), and 3. Bill of Materials. You may submit as many packages as you want and to as many categories as you want. Information on Sopogy's MicroCSP technology can be accessed via www.SopoApps.org by clicking on "SopoNova 4.0 Collector" in the TOOLS BOX on the left-hand side of the homepage.

Complete project standard parameters:

1. INTRODUCTION: complete and submit a summary of your project in the form of a technical summary.
2. DRAWING(S): Upload at least one visual illustration of your design including flow diagrams (file type options: PDF, GIF, JPEG, PNG, EDRAW).
 - You may submit: Scanned sketches, charts, and 2D CAD drawing images, 3D CAD images including 3D PDF eDrawings files
3. BILL OF MATERIALS/SPECIFICATIONS: Include the specifications for all equipment used in your design.
 - Include all controls, pumps, valves and heat exchangers. Include points list and sequence of operations. Be sure to indicate SopoNova 4.0 collector count and a basic layout. Ensure there's ample rooftop or groundspace for the project.

10. NASA & Cornell summer 2009 Space Grant internships

<http://astro.cornell.edu/spacegrant/undergrad.html>

The following are 10-week summer internships in science and engineering areas relevant to NASA. For ALL of these opportunities, to qualify for New York Space Grant funding a student must be both a

- US citizen and
- NY State resident OR attend a college/university within NY State

NASA_intern_poster2009.pdf

Opportunity: NASA/NY Space Grant and NASA ESMD Internships at NASA Centers
Other Eligibility Details: Rising sophomores or rising juniors through entering first-year graduate students, minimum GPA 3.0/4.0

Compensation: \$5,500 stipend + \$1,000 travel/relocation

Application Deadline: 02/01/2009

SG_Cornell_poster2009.pdf

Opportunity: NY Space Grant Summer Undergraduate Research Program at Cornell

Other Eligibility Details: Rising sophomores through seniors

Compensation: \$5,500 stipend

Application Deadline: 02/16/2009

Erica Miles □ Associate Director and Program Coordinator □ □ NASA/NY Space Grant Consortium □ 517 Space Sciences Building □ Cornell University □ Ithaca, NY 14853-6801 □ □ Phone: 607/255-2710 □ Fax: 607/255-1767 □ Email: spacegrant@astro.cornell.edu

11. Johns Hopkins University Applied Physics Laboratory

SWE Chapter,

The Johns Hopkins University Applied Physics Laboratory is a nationally recognized, university-affiliated R&D center investigating some of the nation's most complex science and engineering problems. Scientists and engineers work at the leading edge of technology in over 200 programs, ranging from defense systems engineering to space science and biomedicine. We are actively recruiting for new graduates for entry level technical employment opportunities and internships

Click [here](#) to learn more about our organization.

We strongly encourage everyone with relevant background and professional interests to consider opportunities at APL. Due to the nature of our work, most positions at APL require U.S. citizenship.

Thank you,

Stacy D. Murphy

Employment Systems and College Recruiting □ Johns Hopkins University Applied Physics Laboratory □ 11100 Johns Hopkins Road □ Laurel, Maryland 20723

www.jhuapl.edu

12. FY10 RCR/RCNE Elections - Call for Applicants - Regions D & E

Call for Applicants!

Are you interested in taking your SWE leadership to the next level? Do you want to make a difference in programs for collegiate members? If so, this is your opportunity to

apply! You could be your region's next Region Collegiate Representative (RCR) or Region Collegiate Newsletter Editor (RCNE).

The RCR is responsible for representing collegiate members' interests among regional leaders. The RCNE is responsible for communicating important SWE events and best practices primarily through the region's blog. Plus, the RCR(s) and RCNE from each region will get to attend next summer's Collegiate Leadership Forum in Chicago, IL!

Both positions provide invaluable interaction and coaching from SWE leaders. These leadership opportunities sharpen your career skill-set in the areas of leading and facilitation, group dynamics and communication, and project leadership. Please click on this link to get started on your RCR or RCNE application.

When you apply you will need:

- Member number
- Section/Region
- School and Permanent Address
- Position of interest
- SWE leadership positions
- Other leadership positions
- What you bring to the RCR or RCNE position
- What SWE means to you
- Interest outside of SWE
- Reference to confirm GPA/academic standing

Applications are due by Friday, February 13th.

Like FY09, in FY10 there will be 1 RCR for every 1,000 collegiate members in the region up to 2. Below is a summary of each Region's membership as of November 30th. Regions with a collegiate membership of 1,000 members by Dec 31st 2008 will host 2 RCRs.

Region D: 1,226 members (2 RCRs) □ Region E: 1,253 members (2 RCRs)

Note the application for becoming Collegiate Senator was provided in a separate eBlast. There will be opportunities to learn more about the differences between Collegiate Senator, RCR, and RCNE in the coming weeks.

More information about the election process can be found in the SWE Community "Collegiate Leadership Opportunity Community". If you have any questions regarding the RCR/RCNE positions or the election process, please contact your Region Leadership:

RCR – rcr-d@swe.org (for region D), rcr-e@swe.org (for region E)

RCNE – rcne-d@swe.org (for region D), rcne-e@swe.org (for region E)

Region Governor - Karen Ramsey-Idem (Karen.m.ramsey-idem@cummins.com, region D), Angela Waller (Governor-e@swe.org, region E)

or Pam Snyder, FY09 RCR-RCNE Coordinator

Thank you,

Pam Snyder, FY09 RCR/RCNE Coordinator □ Jennifer Vallero, FY09 RCR/RCNE Coordinator-Elect

13. CU LSAMP-R

CU LSAMP-R is a paid summer research opportunity that provides students with the opportunity to work with distinguished faculty and staff, and 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 work under the guidance of a faculty or research mentor at Cornell University. Through this one-on-one partnership, students will gain theoretical knowledge and practical training in academic research and scientific experimentation. CU-LSAMP-R was developed to aid in the retention of traditionally underrepresented minority groups in the sciences and engineering.

*CU LSAMP-R DATES: JUNE 1-AUGUST 7, 2009

ELIGIBILITY REQUIREMENTS

*Applicants must be in good academic standing with a GPA of 3.0 or better and:

- * Have completed at least two semesters and have at least two semesters remaining of their undergraduate education at the start of the summer program.
- * Students may NOT take courses while participating in CU LSAMP-R.

APPLICATION PROCEDURE

- * Students interested in the CU LSAMP-R program must submit their completed application by *FEBRUARY 9, 2009*.
- * Applicants must also submit transcripts, two letters of recommendation, and an essay about their research interests
- * Applicants will be notified of their acceptance via e-mail between *MARCH 15- April 6, 2009.*
- * CU LSAMP-R Application and Recommendation forms are available to download at : **
* <http://www.engineering.cornell.edu/diversity/office-diversity-programs/summer-programs/LSAMP.cfm> *
- * These documents may also be obtained by e-mailing your request to:

dpeng@cornell.edu <<mailto:dpeng@cornell.edu>>.* *

CU LSAMP-R RESEARCH PACKAGE INCLUDES:

- * A round-trip travel stipend of up to \$300*
- * A double room in Keeton residential hall
- * A campus bus pass OR a campus parking pass
- * A meal plan valued at approximately \$465
- * Access to state-of-the-art laboratories, libraries, computer/study lounges, etc.
- * */A stipend of \$3,000 /*//
- * /*For Monroe/Onondaga Community College students and/or students living outside the Ithaca area/

For more information, contact the Diversity Programs in Engineering Office, 607.254.5202 or dpeng@cornell.edu <<mailto:dpeng@cornell.edu>>.

14. Capital One Opportunities for All Years

Capital One is kicking off our spring recruiting season with opportunities for every school year! We had a fantastic fall season at Cornell and hope the trend continues into the spring. We are searching for the right students to explore the following opportunities:

Seniors- DATA ANALYSTS: As a Data Analyst, you will spend your first two years in Capital One's Analyst Development Program, which is designed to develop your technical and analytical skills while improving your depth and breadth of business knowledge. To apply, please drop your resume through the Barnes or Engineering career centers. Deadline is January 26th and testing is a pre-requisite.

Juniors- SUMMER INTERNSHIP: As a Capital One intern, you'll interact with our business leaders in a fast-paced environment and learn how our people use the 'test-and-learn' approach to drive innovation. To apply, please drop your resume through the Barnes or Engineering career centers. Deadline is January 26th and testing is a pre-requisite.

Freshmen and Sophomores- SUMMIT for DEVELOPMENT LEADERS: At this one-week program, a small, elite group of freshmen and sophomores will come together to learn more about the analytical and problem-solving skills valued by today's leading employers. To apply, please see the job card for application instructions. Deadline is March 6th.

Please feel free to direct your club members to me at kerry.cunningham@capitalone.com if they have any questions or need any further information.

I appreciate your help and look forward to working with you in the spring!

Kerry Cunningham

Scholarship Opportunities

None at this moment!

Misc...

15. Ingenius Competition Video

The Link is a you tube video promoting the contest.
<http://www.youtube.com/watch?v=5a4Vt3ui4As>

16. Join AguaClara!

Join AguaClara for the Spring 2009 Semester!

Seeking students to join the AguaClara team. No experience is necessary. Undergraduates of all ages are encouraged to join (offered as either CEE 2550 or CEE 4550). Students have the opportunity to take part in a trip to Honduras through the class. AguaClara is especially seeking Spanish speaking students and students with experience in LabVIEW.

For more information please email ajd47@cornell.edu

17. Contact Information!

Name, Directorship, Netid

Kavita Baba, President, kb273
Adwiti Balakrishna, President, ab442
Amrita Mahtani, Corporate Relations, agm39
Renee Yuen, Corporate Relations, ry42
Corinne Winters, Corporate Relations, caw262
Alex Woldman, Corporate Relations, ayw6
Emily Swarr, Career Development, ecs43

Kristie Resetco, Career Development, kmr53
Alex Milaychev, Public Relations, am495
Christine Pitner, Public Relations, clp65
Christine Catudal, Conference Planning, clc242
Liz Tutunjian, Conference Planning, eht26
Barbara Wang, Student Services, baw39
Michelle Zheng, Student Services, myz4
Caitlin Cutter, Fundraising, clc62
Danielle Brody, Fundraising, dlb333
Alice Chuang, Finance, acc65
Liz Corson, Outreach, ecc35
Nicole Rodia, Outreach, ncr6

18. Adding something to SWEmail!

If you wish to have an ad or blurb in the SWEmail, please send it to cornellswe@gmail.com by 12 pm Sunday.

Have a great week, ladies!
Alex and Christine