

Opportunities for Women in Computer Science

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Research Programs

AT IOWA STATE:

PWSE Summer Research Internships

The PWSE Summer Intern Program allows students to work on a variety of projects and gain hands-on research experience under the supervision of ISU faculty and staff. In addition, they attend weekly seminars, write research reports and summarize their research in poster presentations. During summer 2007, 32 undergraduate students participated in the intern program. Under the direction of their mentors, interns worked for eight weeks and were paid a stipend of \$3,500.

<http://www.pwse.iastate.edu/oncampus/summerintern.html>

AT OTHER SCHOOLS OR INSTITUTIONS:

National Science Foundation – Research Experiences for Undergraduates (REU)

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation.

Includes:

- 8 – 12 week summer internship programs
- \$3000+ stipends
- Research guided by faculty mentors and graduate students
- Tours, advising, field trips, special programs, etc.

http://www.nsf.gov/crssprgm/reu/list_result.cfm?unitid=5049

AGEP and IGERT – for those interested in graduate degrees

Over 600 programs -Undergraduate REU and Other Summer Research Opportunities:

www.agep.us/summer.asp

www.igert.org/summer.asp

Scholarships

AT IOWA STATE:

Program for Women in Science and Engineering (PWSE) Undergraduate Scholarships

PWSE offers scholarships to undergraduate women enrolled in science or engineering curricula at Iowa State. Students apply during January each year for scholarships. During the 2007-08 academic year, 24 scholarships totaling \$24,200 were awarded.

<http://www.pwse.iastate.edu/oncampus/ugscholarships.html>

Cargill IT Connections Scholars Program in partnership with PWSE and funded by Cargill

This program was started two years ago at Iowa State, in which \$1000 scholarships are provided for 5-8 women in computer science, computer engineering, and MIS. As part of the program, the recipients work together for a semester to create a service project that helps promote women in science and engineering. Past projects included presenting at the Taking the Road Less Traveled career conference about computing careers.

Scholarship winners also go on two on-site visits to Cargill, one of which is to their headquarters in Minneapolis to learn about career opportunities. As a scholarship winner, you will get higher priority for internship and full-time positions at Cargill, and have the chance to meet with Cargill recruiters and employees when they are on campus.

- To apply for the scholarship, look for emails toward the end of this semester or the beginning of next.

OUTSIDE IOWA STATE:

Google 2008 Anita Borg Scholarship

Scholarships will be awarded based on the strength of candidates' academic background and demonstrated leadership. A group of female undergraduate and graduate student finalists will be chosen from the applicant pool. The scholarship recipients will each receive a \$10,000 scholarship for the 2008-2009 academic year. Remaining finalists will receive \$1,000 each.

All scholarship recipients and finalists will be invited to visit Google headquarters in Mountain View, California on April 3-5, 2008 for a networking retreat which will include workshops with a series of speakers, panelists, breakout sessions and social activities.

Candidates must:

- be entering their senior year of undergraduate study or be enrolled in a graduate program in 2008-2009 at a university in the United States.
- be Computer Science, Computer Engineering, or related technical field majors.
- be enrolled in full-time study in 2008-2009.
- maintain a cumulative GPA of at least 3.5 on a 4.0 scale or 4.5 on a 5.0 scale or equivalent in their current program.

<http://www.google.com/intl/en/anitaborg/>

Microsoft College Scholarships

- Awarded \$500,000 in scholarships for the 2006-07 school year
- Covers 100% of tuition for one school year
- Also includes a paid summer internship for 12 weeks in Redmond, WA
- Must have at least a 3.0/4.0
- Award a large majority of student scholarships to women, underrepresented minorities, and the disabled.

http://www.microsoft.com/college/ss_overview.msp

SWE Scholarships

The SWE Scholarship Program provides financial assistance to women admitted to accredited baccalaureate or graduate programs, in preparation for careers in engineering, engineering technology and computer science. In 2005, SWE disbursed more than 130 new and renewed scholarships valued at more than \$300,000.

- Applications for 2008-2009 available in December

www.swe.org/scholarships/winners.aspx

Conferences

Grace Hopper Celebration of Women in Computing

Keystone Resort, Colorado
October 1-4, 2008

This event is a series of conferences designed to bring the research and career interests of women in computing to the forefront. Presenters are leaders in their respective fields, representing industrial, academic and government communities. Leading researchers present their current work, while special sessions focus on the role of women in today's technology fields, including computer science, information technology, research and engineering.

Past Grace Hopper Celebrations have resulted in collaborative proposals, networking, mentoring, and increased visibility for the contributions of women in computing.

- Student scholarships are available to cover full cost of attending conference
- This year's conference: <http://gracehopper.org/2007/>
- Next year: <http://gracehopper.org/>

Carnegie Mellon University – Opportunities for Undergraduate Research in Computer Science Conference for Women in Computer Science

Inaugural conference was this year, October 5-7, 2007

This conference is research-focused and will provide opportunities for undergraduate women to work on exploratory problems in teams led by researchers from industry and academia.

Participants will also be able to:

- * meet others who share their curiosity and interest in computer science
- * discuss their research
- * tackle research questions
- * explore the research experience in academia and industry
- * present a talk and/or poster: great for first-timers!

<http://www.cs.cmu.edu/ourcs/index.html>

Job Opportunities/Networking

IBM Talent of the Future

Held in mid-November every year.

TOF is an event held by IBM to celebrate women in technology fields. It will provide students with an opportunity to network with other university women in technology majors, as well as with top technical and executive leaders at IBM Rochester. Attendees of this exciting event will benefit from presentations by top technical professionals, discussion with IBM campus representatives, and more! Students will be given the opportunity to speak with the IBM recruiters about possible co-op/internship opportunities.

Students must fall within the following guidelines to be considered for this event:

- o Classification: Freshmen, Sophomore, or Junior students
- o Major: Engineering or Technology-related major (Computer Science, Engineering, Math, etc.)
- o G.P.A.: Minimum of 3.3 or higher on a 4 point scale

Outreach

Taking the Road Less Traveled (TRLT) career conference

A conference at Iowa State with career sessions, hands-on activities, and tours for girls in middle school and high school to learn about science, technology, engineering, and math careers.

Spring 2008 sessions:
April 10 (9-12th graders)
April 17 (6-9th graders)
April 24 (6-9th graders)

<http://www.pwse.iastate.edu/outreach/trlt.html>

Clubs and Societies

Women in Science and Engineering (WiSE)

<http://www.stuorg.iastate.edu/wise/>

Society of Women Engineers (SWE)

<http://www.eng.iastate.edu/swe/>

Alpha Sigma Kappa – Women in Technical Studies (sorority)

<http://www.stuorg.iastate.edu/ask/>

Graduate School Fellowships

AT&T Labs Fellowship Program
National Physical Sciences Consortium Graduate Fellowships
American Association of University Women (AAUW) Fellowships and Grants
IBM Ph.D. Fellowship Program
Lucent Technologies Graduate Research Program for Women
National Science Foundation Graduate Research Fellowships
Clare Booth Luce Program
See <http://women.cs.cmu.edu/ada/Resources/Fellowships/> for more.