Female Student Technology Aspirations and Awards

VCCA October 2018

Session 2 Oct. 3 at 3.15-4.00 PM

Rachel Stange Amy Buchanan Dr. Melissa Stange



Let's Talk About

Women in Computing

Value of Diversity in Computing

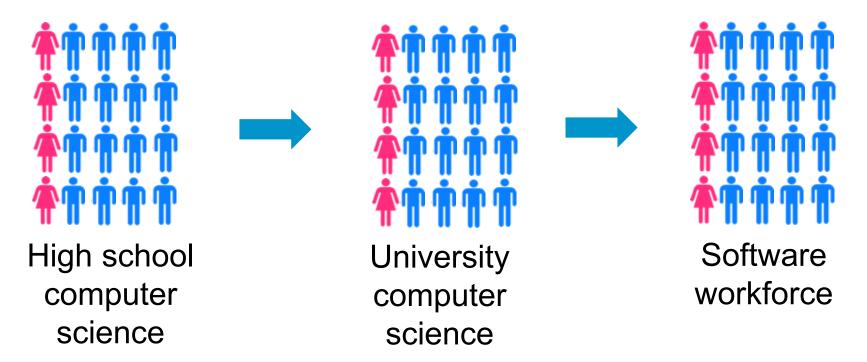
Female recognition from high school to college

Awards & Grants Just For Females High School - College

Real Experiences & Benefits



Diversity is a problem in computing



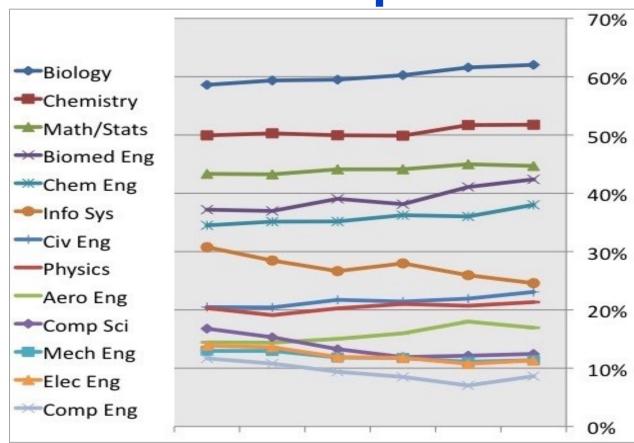
Women who try AP Computer Science in high school are ten times more likely to major in it in college, and Black and Hispanic students are seven times more likely.

Young Women = Untapped Talent

Undergraduate degree recipients	57%	
AP test-takers	54%	
AP calculus test-takers	46%	
ISEF finalists in biochemistry	63%	
Computing degree recipients	18%	
AP computer science test-takers	29%	
Computing-related occupations	26%	

Women in Scientific Disciplines

Percentage of Bachelor's Degrees Awarded to U.S. Women in Various STEM Disciplines



Source: Data Retrieved from National Center for Education Statistics Integrated Postsecondary Educational Data System.

The Value of Diversity to Computing

- Enhances Innovation
- Expands the Qualified Employee Pool
- Improves the Bottom Line
- Promotes Equality



Aspirations in Computing

- » Identify, recognize and encourage young women for their technology aspirations and achievements
- » Build and support technical workforce talent pool
- » National award with local affiliate system
- » Provide peer networking through Facebook group mitigating girls' isolation experience
- » Build direct relationships among girls interested in computing with universities and employers

Aspirations in

Aspirations in Computing What does the competition look like?

- » Checklist of computing activities
- » Six short essays
 - » Technology Access Question
 - » Experience Question
 - » Origin of Interest Question
 - » Leadership Question
 - » Career Goals Question
 - » Problem Solving Question



Award for Aspirations in Computing What's in it for the female students?

- » Opportunity to join a growing FB support community of like-minded young women (nearing 12,000 members)
- » Attend an event held in their honor with individual recognition, a plaque for her and her school, plenty of swag
- » Opportunities for scholarships
- » Connections to professors at a number of universities who are involved with NWIT
- » Powerful resume item which is increasingly being recognized











2018 Awardee NCWIT Profile https://www.aspirations.org/user/114685







Aspirations in Computing Program: Collegiate Award

- The Preliminary Round application includes essays, short answer questions, and a project endorsement
- The Finalist Round application includes a project presentation and letter of recommendation from a project advisor
- Honors outstanding technical accomplishments of college women
- Sponsored by Hewlett Packard and Qualcomm
- Winners receive an engraved plaque, \$10,000 and a trip to the NCWIT Summit
- Honorable Mentions receive a certificate and \$2500
- National Finalist receive certificate and plaque
- College must be an Academic Affiliate Member







Amy's Project story on YouTube: https://youtu.be/6OANbVDZ1jc

More about Amy at:

https://lfcc.edu/aboutlfcc/news/profiles/students/amybuchanan/





Aspire IT

- Connects high school and college women with K-12 girls interested in computing
- Program Leaders (former AiC awardees) teach them computing and computational thinking is FUN!
- Request up to \$3000 to run the program
- Increases technology camps at institution
- Helps build resume with leadership skills

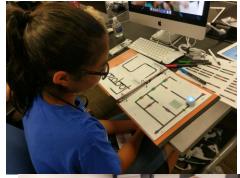
















Rachel's Website: https://www.rachels.online/



Aspirations in Computing Program: K12 Educator Award

- Publicly celebrates educators who encourage high school women's interest and participation in technology pursuits.
- Sponsored by AT&T

Awards:

- \$1000 (\$250 cash, \$750 for PD activities)
- Recognition at local Aspirations Affiliate
- An Engraved award for both the educator and the winner's school





Rachel Stange: rms25145@email.vccs.edu

Amy Buchanan: acb2017@email.vccs.edu

Dr. Melissa Stange: mstange@lfcc.edu

- AiC High School Link: https://www.aspirations.org/participate/high-school By 8p MDT on 11/5
- AiC Collegiate Award: https://www.aspirations.org/participate/collegiate-award By 8p MDT on 10/15



