



ONLINE STEM RESOURCES FOR WOMEN AND GIRLS*

American Association of University Women (AAUW)

<http://www.aauw.org>

AAUW's mission is advancing equity for women and girls through advocacy, education, and research. AAUW is a partner in the National Science Foundation - funded National Girls Collaborative Project (www.ngcproject.org) which is focused on connecting the many programs, organizations, and individuals working to open more opportunities for girls in STEM fields (NSF Award HRD-0631766). The AAUW Educational Foundation, one of the world's largest sources of funding exclusively for graduate women, supports aspiring scholars around the globe, teachers and activists in local communities, women at critical stages of their careers, and those pursuing professions where women are underrepresented including those in STEM fields (<http://www.aauw.org/education/fga/>). The Educational Foundation also conducts research on issues of gender equity in education and the workplace. Recent research reports include: *Where the Girls Are: The Facts About Gender Equity in Education* (2008), *Behind the Pay Gap* (2007), *Drawing the Line: Sexual Harassment on Campus* (2006), *Under the Microscope: A Decade of Gender Equity Projects in the Sciences* (2004), *Public Perceptions of the Pay Gap* (2005), *Beyond the "Gender Wars": A Conversation About Girls, Boys, and Education* (2001), and *Tech-Savvy: Educating Girls in the New Computer Age* (2000) and many others (<http://www.aauw.org/research/index.cfm>).

National Girls Collaborative Project (NGCP)

<http://www.ngcproject.org>

The mission of the National Girls Collaborative Project is to advance the agenda in gender equity for science, technology, engineering, and mathematics (STEM). Resources that can be found on www.ngcproject.org include a program directory for girl-serving projects in STEM, webcasts on topics relevant to girls in STEM, mini-grant information, evaluation resources, informal learning resources, monthly e-newsletter, and relevant links.

Assessing Women and Men in Engineering

<http://www.aweonline.org>

AWE, the National Science Foundation - funded Assessing Women and Men in Engineering Project, offers exportable assessment instruments, literature resources and capacity building tools for engineering educators, Women in Engineering and similar programs including surveys, data collection templates, capacity building tools and national benchmarking.

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* Please note, AAUW provides this list as a resource, not necessarily an endorsement of the organizations included.

Online STEM Resources for Women and Girls

Information Technology

ACM's Committee on Women in Computing - Association for Computing Machinery

<http://www.acm.org/women>

Conferences, mentoring, networking, and internships

Anita Borg Institute for Women and Technology (ABI)

<http://anitaborg.org/>

The Institute's mission is to increase the impact of women on all aspects of technology and to increase the positive impact of technology on the world's women.

Association for Women in Computing

<http://www.awc-hq.org>

Promotes the advancement of women in computing. Mentoring, speakers, scholarships

BinaryGirl.com

<http://www.binarygirl.com>

Detailed interviews with women in a variety of tech fields; message board for online networking

Carnegie Mellon Project on Gender and Computer Science

<http://www.cs.cmu.edu/afs/cs/project/gendergap/www/index.html>

Women in Computer Sciences: Closing the Gender Gap in Higher Education

Center for Women and Information Technology

<http://www.umbc.edu/cwit>

Seeks to address and rectify women's under-representation in IT. Includes "You Can Be Anything" DVD at <http://www.umbc.edu/cwit/video.html#>.

Cisco Learning Institute Gender Initiative

<http://gender.ciscolearning.org>

Includes recruitment & retention strategies, best practice sites, female role models, and country reports on IT & gender

GirlGeeks

<http://www.girlgeeks.org>

Career, training, and mentoring community for women and girls in technology

GirlTech

<http://www.girltech.com>

Club Girl Tech features eight entertaining and educational areas for girls

IGNITE: Inspiring Girls Now in Information Technology Evolution

<http://www.ignite-us.org>

Educates and inspires girls to consider high tech as a positive career choice. School presentations, field trips, workshops, mentoring

National Center for Women and Information Technology

<http://ncwit.org>

A coalition of corporations, academic institutions, government agencies, and non-profits working to increase women's participation in information technology.

TechDivas

<http://www.techdivas.com>

E-business and technology for women; features high-powered female role models, career info and tech news

Webgrrls

<http://www.webgrrls.com>

Networking, mentoring, career information for women interested in technology

Women in Technology International

<http://witi.com>

Dedicated to advancing women in technology through conferences, training, career resources, networking

Women in the realm of Computer Visual Arts, Effects, and Animation

<http://women.animation.org>

Online role models, mentorships, streaming video interviews with members

Women Tech World

<http://www.womentechworld.org>

The online home for women technicians to connect with each other, interactive e-mail discussion group, job ads, career center, e-mentoring and biographies

Online STEM Resources for Women and Girls

Engineering

American Society of Mechanical Engineers/Minorities and Women

<http://www.asme.org/Communities/Diversity>

E-mentoring program, statistics on women, Young Engineer Program, Diversity Action Grants

Celebration of Women in Engineering – National Academy of Engineering

<http://www.engineergirl.org/CMS/CWE.aspx>

Gallery of female engineers, chats with female engineers, Engineer Girl for high school students, career information, and financial aid

Engineer Girl – a program of the National Academy of Engineering

<http://www.engineergirl.org>

Educates girls about careers in engineering

MentorNet

<http://www.mentornet.net>

An e-mentoring network for female students in engineering and science

Society of Women Engineers

<http://www.swe.org>

Dedicated to advancing and encouraging women in engineering; conferences, networking, career development, scholarships

Women in Engineering ProActive Network

<http://www.wepan.org>

Strives to enhance the success of women in engineering. Activities include conferences, college programs, K-12 programs and publications

Science and Mathematics

ACM-W: Committee on women and computing

<http://women.acm.org/>

The mission of ACM-W is to engage in activities and projects that aim to improve the working and learning environments for women in computing.

Association for Women in Mathematics

<http://www.awm-math.org/index.html>

Dedicated to encouraging women and girls in mathematics; newsletter, workshops, mentoring

Association for Women in Science

<http://www.awis.org>

Promotes equity for women in science, mathematics, engineering and technology

EDD/ECC Telementoring Project

<http://www.edc.org/CCT/telementoring>

Results of a telementoring project designed to engage girls in math and science

MentorNet

<http://www.mentornet.net>

An e-mentoring network for female students in engineering and science

New Scientist

<http://www.newscientist.com>

Publication on science careers and the latest news in the field

TERC (Technical Education Research Centers)

<http://www.terc.edu/>

A mathematics and science education site, based in Cambridge, Massachusetts.

Women Chemists Committee of the American Chemical Society

<http://membership.acs.org/W/WCC/>

W/WCC promotes women in the chemical sciences. Online mentoring, career information, newsletters

Online STEM Resources for Women and Girls

Professional Organizations

ACM's Committee on Women in Computing - Association for Computing Machinery

<http://www.acm.org/women>

Conferences, mentoring, networking, and internships

American Society of Mechanical Engineers/Minorities and Women

<http://www.asme.org/Communities/Diversity>

E-mentoring program, statistics on women, Young Engineer Program, Diversity Action Grants

Association for Women in Computing

<http://www.awc-hq.org>

Promotes the advancement of women in computing; mentoring, speakers, scholarships

Association for Women in Mathematics

<http://www.awm-math.org/index.html>

Dedicated to encouraging women and girls in mathematics; newsletter, workshops, mentoring

Association for Women in Science

<http://www.awis.org>

Promotes equity for women in science, mathematics, engineering and technology

Women Chemists Committee of the American Chemical Society

<http://membership.acs.org/W/WCC/>

W/WCC promotes women in the chemical sciences. Online mentoring, career information, newsletters

Women in Aviation International

<http://www.wai.org>

Encourages women to seek opportunities in aviation through conferences, scholarships, networking, mentoring

Women in Cable & Telecommunications (WICT)

<http://www.wict.org>

Membership association for women in this industry, 22 chapters, networking and professional development

Women in Technology International

<http://witi.com>

Dedicated to advancing women in technology through conferences, training, career resources, networking

Career Information

Best Online Resources for Science and Technology Jobs and Careers for Women and Minorities

<http://www.edu-cyberpg.com/Teachers/womenminoritiestech.html>

Extensive list of links to education, organization, and career Web sites

Diversity Careers Magazine

<http://www.diversitycareers.com>

Targets women and minorities in engineering and IT programs and careers

Institute for Women in Trades, Technology, & Science (IWITTS)

<http://www.iwitts.com>

Promotes women in the trades, technology, and science careers; clip art section where you can download both clip art and pictures of women in non-traditional occupations.

Under the Microscope

<http://www.underthemicroscope.com>

Online hub for women pursuing or working in STEM careers to share their real-life stories, plus additional resources for students, educators, and STEM professionals.

Women of NASA

<http://quest.arc.nasa.gov/women/intro.html>

Meet and interact with the women at NASA who are enjoying successful careers in science, technology, engineering, and math

Work4Women

<http://www.work4women.org>

Provides tools, strategies and a virtual community to help increase women and girls' integration and retention in high-wage jobs that are considered nontraditional for women. Occupations range from technical/mechanical, information technology, telecommunications, construction, and more

Online STEM Resources for Women and Girls

Girl Serving Organizations/Web sites

ASPIRE (SWE)

<http://aspire.swe.org/>

Diversifying the field by encouraging girls in grades K-12 to capture the spirit of innovation and open their eyes and minds to engineering

AWSEM – Advocates for Women in Science, Engineering & Mathematics

<http://www.saturdayacademy.org/Default.aspx?tabid=97>

Brings together parents, educators and women professionals in science-related fields to kindle and support young women's interest in science, engineering, mathematics and technology

Engineer Girl – a program of the National Academy of Engineering

<http://www.engineergirl.org>

Educates girls about careers in engineering

Expanding Your Horizons (Conferences)

<http://www.expandingyourhorizons.org/>

Conferences that nurture girls' interest in science and math courses to encourage them to consider careers in STEM

Girls' E-mentoring in Science, Engineering & Technology (GEM-SET)

<http://www.uic.edu/orgs/gem-set/index.htm>

Program designed to connect young girls in middle school and high school with professional women in the SET fields

Girlstart – Smart from the start!

<http://www.girlstart.com>

Educating and empowering girls in math, science, and technology

Girls Scouts of America

http://www.girlscouts.org/program/program_opportunities/science/

Dedicated solely to girls where, in an accepting and nurturing environment, girls build character and skills for success in the real world.

GirlTech

<http://www.girltech.com>

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IGNITE: Inspiring Girls Now in Information Technology Evolution

<http://www.ignite-us.org>

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Science Buddies

<http://www.sciencebuddies.org/>

Free science fair project ideas, answers, and tools for serious students

Techbridge

<http://techbridgegirls.org>

Provides after-school and summer programs to encourage girls in technology, science, and engineering

Online STEM Resources for Women and Girls

STEM Resources for Teachers

Lessons, Games, and Activities on Water (grades 4-8)

http://www.epa.gov/OGWDW/kids/teachers_4-8.html

Hands-on Experiments about the Water Cycle (grades 3-7)

<http://www.emints.org/ethemes/resources/S00000329.shtml>

Integrating Electrical Engineering Concepts (K-12)

<http://www.eas.asu.edu/~holbert/wise/IntegrateEEk12.html>

PBS Dragon Fly TV Classroom or After School Experiments

<http://pbskids.org/dragonflytv/parentsteachers/index.html>

Technical Education Research Centers

<http://www.terc.edu/>

National Science Digital Library resources for K-12 teachers page

http://nsdl.org/resources_for/k12_teachers/

TechBridge guide to help role models and educators plan effective classroom visits and worksite field trips

<http://techbridgegirls.org>

STEM Experiments for Kids

Darby Duck fights water pollution

<http://www.epa.gov/nps/kids/DARBY.HTM>

Groundwater Adventurers (K-12)

<http://groundwateradventurers.org/h20experiments.html>

National Geographic Water experiments

http://www.nationalgeographic.com/ngkids/trythis/trythis_water/floating-paper-clip.html

Water Magic: Water Experiments for Kids of All Ages

<http://www.carlsbadca.gov/water/wdkids.html>

Water Experiments

<http://www.hometrainingtools.com/articles/experiments-with-water-science-project.html>

Water What-ifs for kids

<http://www.ncsu.edu/sciencejunction/depot/experiments/water/kids.html>

U.S. Patent and Trademark Office Kids' Pages

<http://www.uspto.gov/web/offices/ac/ahrpa/opa/kids/index.html>