aspire 2 inspire

http://women.nasa.gov/a2i/

Think Science, Technology, Engineering, and Math (STEM) is just for boys? We don't...

Overview

STEM fields have long been perceived as being male dominated areas. However, in this film we take a look at how women have had important and significant impacts in STEM fields. Will you be next?

Julie Mitchell

Science

In our science film you'll see Julie Mitchell working on water recovery and recycling, Tara Ruttley talking about experiments on the International Space Station, and Carlie Zumwalt creating digital simulations of the Martian atmosphere.

(Follow these women on Twitter @a2i_sci)

Technology

Our technology film features Allison Wolff discussing her job with Information Technology, Antja Chambers seeking new technologies for spacesuits, and C.J. Kanelakos highlighting novel work on "Robonaut 2".

(Follow these women on Twitter @a2i_tech)

Antja Chambers

Alma Stephanie Tapia

Engineering

In our engineering film Cindy Koester shares her job with Environmental Control & Life Support Systems, Alma Stephanie Tapia explores materials and softgoods development, and Carly Watts explains her participation in Space Suit design and testing.

(Follow these women on Twitter @a2i_engr)

Mathematics

In our mathematics film Tejal Fairfield talks about budget analysis, Kim Hambuchen shows her world of software development for advanced robotics, and Carolina Restrepo describes spacecraft trajectory analysis and orbital mechanics calculations.

(Follow these women on Twitter @a2i_math)

Tejal Fairfield

Want to learn more?

Flip over to find out how!

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Visit our website at http://women.nasa.gov/a2i/ to watch the videos, read personal bios from the women featured, and interact with them via Twitter!

National Aeronautics and Space Administration

Aspire To Inspire
Johnson Space Center
Houston, Texas 77058
http://women.nasa.gov/a2i/

NASA Organizations

NASA Aerospace Scholars - http://aerospacescholars.jsc.nasa.gov/ - A collection of outstanding programs including the Middle School Aerospace Scholars, the High School Aerospace Scholars, National Community College Aerospace Scholars, Texas Community Aerospace Scholars, and Texas Aerospace Scholars Internship program.

NASA Educators Online Network - http://neon.psu.edu/ - A professional learning community, open to present and future K-12 STEM educators, scientists, engineers, and other professionals who want to support STEM teachers in their important work.

NASA INSPIRE - http://www.nasa.gov/education/INSPIRE - The Interdisciplinary National Science Project Incorporating Research and Education Experience, or INSPIRE, is a multi tier year-round program designed for students in ninth to 12th grade who are interested in science, technology, engineering and mathematics, or STEM, education and careers.

NASA Pre-Service Teacher Institute - http://education.jsc.nasa.gov/psti/ - The Pre-Service Teacher Institute is a summer residential session for Early Childhood, Elementary Education, and Middle School Education (K-8) majors preparing to teach in an elementary or middle school classroom.

NASA Summer of Innovation - http://www.nasa.gov/soi/ - This new NASA project is designed to improve the skills and enhance the engagement of American students in STEM.

NASA WISH - http://wish.spacegrant.org/ - NASA wants you to become the engineers, scientists, researchers and innovators of tomorrow. This program immerses female high school juniors in learning as they become members of the interactive online community WISH.

Community Organizations

Career Girls - http://www.careergirls.org - Career guidance and inspirational videos to help girls of all income levels and ethnic backgrounds to think big about their futures.

Girl Scouts - http://www.girlscouts.org/ - Girl Scouting builds girls of courage, confidence, and character, who make the world a better place. Girl Scouting helps girls develop their full individual potential; relate to others with increasing understanding, skill, and respect; develop values to guide their actions and provide the foundation for sound decision-making; and contribute to the improvement of society through their abilities, leadership skills, and cooperation with others.

Girl Up - http://www.girlup.org/ - Girl Up envisions a world where all girls around the world, have the opportunity to become educated, healthy, safe, counted and positioned to be the next generation of leaders.

Girls Inc. - http://www.girlsinc.org/index.html - Girls Incorporated is a nonprofit organization that inspires all girls to be strong, smart, and boldSM through a network of local organizations in the United States and Canada. Girls Inc develops research-based informal education programs that encourage girls to take risks and master physical, intellectual and emotional challenges.

10x10 - http://10x10act.org/ - 10x10 is a global movement for girls' education - a film and social action campaign. People working together to change girls' lives. Educating girls breaks the cycle of poverty and changes the world. We'll give you easy, interesting ways to stay involved.

Sally Ride Science - https://www.sallyridescience.com/ - Sally Ride Science™ is an innovative science education company. Dr. Sally Ride, America's first woman in space, founded the company to educate, engage, and inspire all students. The company brings science to life through pioneering professional development, instructional solutions, and real-science investigations for grades 4-8.

Society of Women Engineers - http://societyofwomenengineers.swe.org/ - SWE is the driving force that establishes engineering as a highly desirable career aspiration for women. SWE empowers women to succeed and advance in those aspirations and be recognized for their life-changing contributions and achievements as engineers and leaders.