Women's History Month

Boeing invites you to celebrate Women's History Month! Starting with Boeing's first woman engineer, Helen Holcombe, in 1918, women have been integral in powering Boeing. Boeing remains committed to fostering the next generation of women in STEM. Help us celebrate women and girls in STEM this Women's History Month with these Future U Resources.

See Women in STEM Advancing Their Fields at Boeing! Check out the additional videos and hands-on activities in the FUTURE U STEM Career Videos. Meet the diverse, highly skilled women at Boeing harnessing their collective passions and acumen to develop the greatest aircraft in the world. Activities include:

- **Identify a problem in your school, create a survey, analyze the results, and develop a solution** with IT and data analytics product owner, Kasie Dugan
- **Build and test helicopter models** with manufacturing engineer, Latoya Benally.

Learn About the Changemakers in STEM.. Revisit the lives and careers of influential STEM innovators who came from diverse backgrounds to make important contributions to science and our society. In this immersive experience, students feel like they are sitting in the audience of a theatre while interacting with virtual artifacts like satellites, blueprints, and more!

- **Follow in Aprille Joy Ericsson's Footsteps:** learn from the first African-American woman to receive a PH.D, in engineering at the NASA Goddard Space Center to solve an aerospace challenge.
- **Find Your Place in STEM with Gladys West:** Listen to Gladys West, renowned mathematician and one of the 'Hidden Figures' whose work helped create the Global Positioning System (GPS), and use GPS coordinates to create a community, national, or global tour for your peers.

Celebrate the Women at Boeing with additional videos and hands-on STEM activities with the STEM Careers Coalition, created in partnership with Discovery Education.

- **Meet Liaison Engineer, Jen Opp**: see her journey from student to engineer working on the Boeing 787 Dreamliner. Discover the role of stress engineers is to determine the stresses and strains that each part of an aircraft will endure and then ensure that each part maintains stability when subjected to the forces and heavy loads of flight.
- **See Computer Vision Software Engineer, Bhargavi Patel**: learn about the design and development of digital devices that can imitate human sight, understand objects that are in front of them, and act accordingly to meet the needs of users for a variety of applications like self-driving cars and facial recognition on smart phones!

LEARN MORE: www.BoeingFUTUREU.com

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More FUTURE U Fun!

FUTURE U is a partnership between Boeing and Discovery Education that aims to inspire the next generation of aerospace innovators by providing free standards-aligned, STEM-focused educational resources for middle and high school teachers and students. Viewers can engage with **virtual field trips**, **360 extended reality videos**, and **hands-on design challenges** to learn about aerospace engineering, electrical engineering, artificial intelligence, and more**.**
Look for additional content launching in 2023!

Manufacture the Future of Aviation

See what game-changing innovations in aviation look like up close with an exciting tour of three Boeing manufacturing facilities located in Renton, WA, Portland, OR, and Salt Lake City, Utah. Find out how mechatronics, robotics, and ergonomics are shaping the future of aviation manufacturing and introduce students to a variety of skilled STEM professionals who use cutting-edge tech to solve real-world challenges.

Flight Path

Flight Path, a five-part video Topic Series, students will explore first-hand the innovation and continuous improvement that occurs at Boeing. They will be introduced to a wide range of important and complex processes, and they will meet some of the diverse Boeing employees who collaborate to develop state-of-the-art aircraft. Each episode in the series highlights a specific phase of the Boeing aviation process: design and conception, fabrication and manufacturing, testing and analysis, manufacturing and delivery, and support in daily service.

Testing the Limits Virtual Field Trip

Explore how test and evaluation engineers test the limits of aerospace to ensure quality, reliability, safety, and performance. Students will learn about Structural Testing, Wind Testing, Environmental Testing, Electromagnetic Testing, and Non-Destructive Testing.

Online Lesson Plans

Use hands-on, standards-aligned STEM lessons to guide students as they explore key concepts in aerospace and engineering. Students can explore activities related to space, environment, and aviation careers. Contemplate moon tourism, create and test a self-propelling model boat, design your own helicopter, and more!
Length: each activity is designed for three 45-60 minute class periods
Designed for grades 6-8; *Lessons can be adapted for completion by a single student*

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