

# Discover Future in Aviation



**Grade Level(s):** 6-12<sup>th</sup>

**Group Size:** Varies

**Length:** 45 min

**Location:** Classroom or virtual instruction

## Background Information

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Hawaii's future workforce must be STEM proficient. Nearly 20% of available jobs require scientific and/or engineering expertise, and this demand will remain constant or grow in the next decade. Hawaii has over 23,000 professional, scientific, and technical services' jobs, yet 37% of incumbents are 45 years or older. This greying of the STEM workforce, combined with growth in STEM industries, means the need for qualified STEM workers will continue to rise.

The shortage of STEM-qualified workers has had a negative impact on the aviation industry. There is a world-wide shortage of pilots and maintenance specialists that is expected to grow in the next two decades. Aviation and aerospace jobs provide stable, lucrative careers but many young people aren't aware of the opportunities or career pathways in these important industries.

Pearl Harbor Aviation Museum has created the "Discover Your Future in Aviation" website to provide updated information about learning opportunities, as well as career pathways, for youth and young adults. Resources on this site are curated from a broad array of organizations and are accessible to all students who have access to the Internet.

## Overview

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Educational resources on the Pearl Harbor Aviation Museum's website support the Hawaii public school system's [Career Pathway](#) program and Career and Technical Education (CTE) standards. Like Career Pathways, the Aviation Career Pathways website is a tool for career exploration but specifically to explore careers in aviation. Suggested resources are available to aid in the exploration of career options and to inspire students to explore their interests, with resources guiding students to find connections between their interests and aviation career possibilities. Aviation Career Pathways aims to show students possible pathways to careers of their interest in the aviation field here in Hawaii.

## Objectives

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- Students will understand the various pathways in the aviation career field and know that being a pilot is not the only option.
- Students will learn the steps to meet the requirements of some of the careers in the aviation field.
- Students will review different options to pay for training, including scholarship opportunities.
- Students will be directed to local organizations in their communities that can provide support and mentorship while pursuing their interests in the aviation community.
- Students will be able to explore areas of interest through aviation related videos, hands-on building projects for technological design, online games and simulators, e-books, podcasts and selected twitter feeds.

## Teacher Preparation

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Make sure you have the link to the Aviation Career Pathways on the Pearl Harbor Aviation Museum's website: <https://www.pearlharboraviationmuseum.org/education/aviation-career/>

## Materials Needed

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- Student computer

## Standards

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### Career and Technical Education - Hawaii Content and Performance Standards III

- **6<sup>th</sup> Grade: Standard 1: Technological Design** Benchmark CTE 6.1.1, **Standard 2: Career Planning** Benchmark CTE 6.2.1
- **7<sup>th</sup> Grade: Standard 1: Technological Design** Benchmark CTE 7.1.1, **Standard 2: Career Planning** Benchmark CTE 7-8.2.1
- **8<sup>th</sup> Grade: Standard 1: Technological Design** Benchmark CTE 8.1.1, **Standard 2: Career Planning** Benchmark CTE 7-8.2.1
- **9<sup>th</sup> -12<sup>th</sup> Grade: Standard 2: Career Planning** Benchmark CTIE 9-12.2.2, 2.5, 2.8