FAA STEM AVSED Program:

Opening Eyes to the Wide World of Aviation and Aerospace

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Strategic Goals for STEM AVSED for the Next 5 Years

Pipelines/Pathways
- Create pipelines and pathways to aerospace careers.

Diversity
- Ensure access to aerospace related STEM education for students of diverse backgrounds.

Partnerships
- Create strategic partnerships to maximize the benefits of the program.

Collaboration
- Ensure cross-Agency collaboration to maximize the program.

Strategic Goals for STEM AVSED for the Next 5 Years

Diversity
- Promote increased participation of underrepresented groups in STEM activities and educational programs

Youth
- Inspire youth and community engagement in STEM education and outreach in elementary, middle, and high schools by enhancing student and educator participation in FAA-supported STEM events

Programs
- Cultivate the pipeline of future aviation professionals by developing, cultivating and coordinating STEM based programs in elementary, middle, and high schools, and technical and community colleges

Communicate
- Communicate the value and purpose of the STEM AVSED strategy and the need for engagement
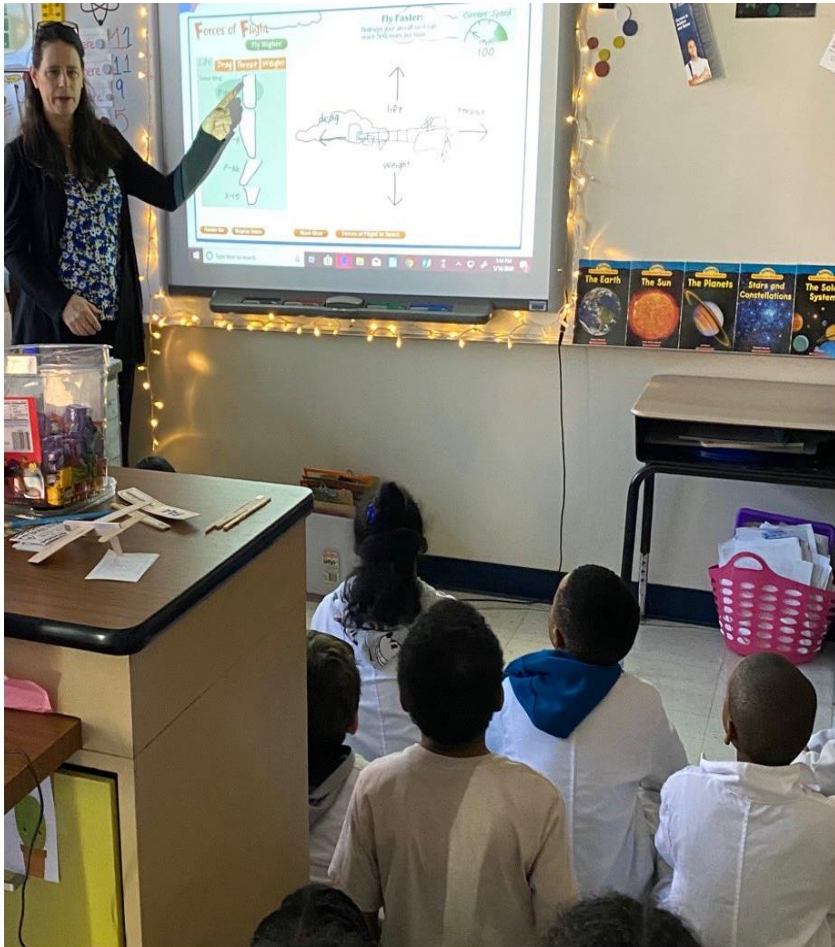
Continual Improvement
- Enhance the efficiency and effectiveness of STEM initiatives by gathering evidence and metrics using a systematic approach

FAA Adopt-a-School Program

- FAA Adopt-a-School Program is one of our STEM AVSED initiatives

- The program focuses on

  ◦ Reinforcing STEM literacy through hands-on learning experiences

  ◦ Increasing awareness of aerospace career opportunities

  ◦ Creating a connection between schools, students, and FAA employees

  ◦ Developing relationships across diverse communities and serving as role models to students in these communities

- Timeline

  ◦ Small-scale program in 2019 – 2020

  ◦ Nation-wide launch in 2021 – 2022

FAA Adopt-a-School: *Program Details*

- The Adopt-a-School Program will:
  - Educate **4th grade students** about aviation and aerospace careers
  - Share STEM-based lessons
  - Foster relationships between FAA experts, teachers, and students
  - Generate professional connections for students
  - Promote community benefits of aerospace
- This **free program** is for the 2021-22 school year. Lessons are provided during school hours.
- Teachers will be paired with a **FAA Liaison** who will facilitate the educational opportunities.
- **FAA Outreach Representatives** (ORs) will present six lessons on aerospace topics.

FAA Adopt-a-School: *Lesson Topics*

- We collaborated with local, regional, and national partners, such as the National Air and Space Museum, to develop lessons and materials for students.
- The six lessons cover various aerospace topics.

✈ Airports

🏢 Air Traffic Controllers

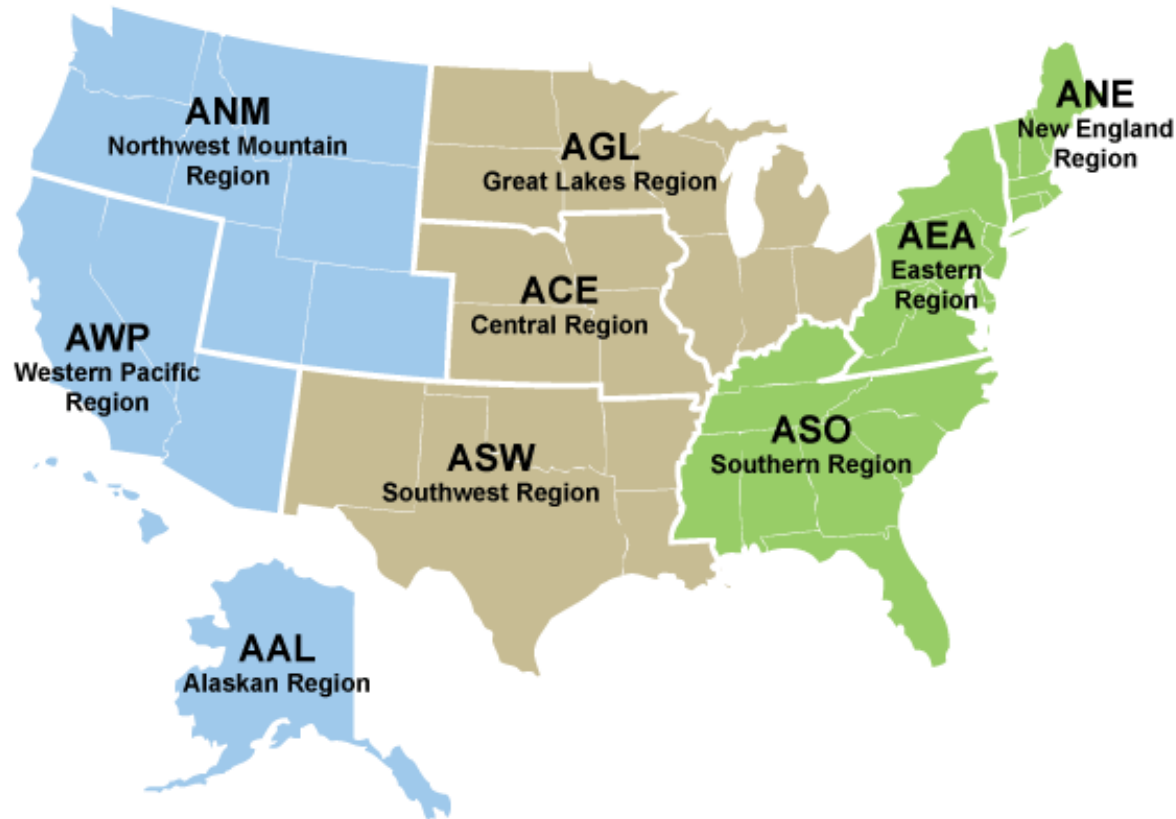⚙ Aviation Maintenance Technicians

🚁 Drones

👨‍✈️ Pilots

🚀 Space

Partnerships in the Community

The program will launch across FAA's nine regions in 2021-2022 school year

- FAA wants to inspire as many students, in as many diverse populations, as possible

- Nine schools across the nation will be selected to participate in the upcoming school year

- School selection was based on a combination of factors, including diverse populations, proximity to FAA facilities, and/or the location of potential partners

- We aim to form lasting relationships in the community, to serve as role models, and to help facilitate connections with our partners

FAA Adopt-a-School: *Making a Positive Impact*

We believe there are many benefits for students, teachers and schools.

Students

- Engage in hands-on learning
- Widen horizons for the future
- Demonstrate STEM literacy
- Look up to role models in their community
- Become aware of aviation and aerospace career opportunities

Teachers

- Encourage STEM literacy
- Build connections with industry and national partners
- Increase library of educational resources
- Support career awareness

Schools

- Collaborate with FAA and other partner entities
- Enhance reputation for advancing students' STEM skills
- Provide unique learning opportunities

ARA-100 Points of Contact

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Any Questions?