



Dream Big Fremont! is coming to Florence High School. Gain knowledge on STEM related career fields. High School Students will connect with industry leaders and professors from Colorado's top technology companies and universities in order to increase students' exposure and interest in pursuing careers in STEM related fields through hands-on demonstrations and interactive activities.

- **How many FHS Students:** 100
- **When:** October 26, 2018
- **Time:** 7:30am - 2:45pm
- **What is it?:**
 - **Aviation**
 - Students will be introduced to a snapshot of Aviation careers, both in the cockpit and outside it. Students will learn the many ways they can be part of aviation – managing airports, working in companies building aircraft, air traffic control, flying planes and more.
 - 28 Student flights at Fremont County Airport
 - **Cybersecurity**
 - Students will learn about Cybersecurity careers and industry opportunities, including what skills and classes are needed for the marketplace. Students will participate in internet of things (IoT) demonstrations featuring a “hunt skill” exercise and internet security breach.
 - NSA
 - **Advanced Manufacturing**
 - Students will learn about advanced manufacturing through the lens of additive manufacturing and 3D printing and its role in aerospace and related industries. Students will design projects for a 3-D printer that will be onsite and interact with graduate students from ADAPT center.
 - **Space**
 - Students will take a trip through space to the International Space Station. Students will hover 250 miles above the earth.
 - Presenters will talk about the possibilities that exist within STEM fields in support of the aerospace industry.
 - **Unmanned Air Systems & Robotics**
 - Students will learn about both the unmanned air systems and robotics industries through an inspiring video. The Unmanned Air Systems (UAS) demonstrations will include flight programming or payload operation, and the robotics demonstrations will include introductions to Solidworks and Matlab software, and operation techniques.
 - Drones
 - Up to 8 feet in diameter
 - Robotic Wheelchair

- Students will be inspired to DREAM BIG about the infinite opportunities they have to improve our world through STEM careers.”
- During the event, students will be divided into groups and will rotate through five inspiring technology learning areas that will include engaging presentations, hands-on demonstrations and interactive activities. Students will also have the opportunity to take part in a virtual space eMission courtesy of the [Challenger Learning Center](#), take an orientation flight from the Fremont County airport courtesy of [Wings Over the Rockies Air & Space Museum](#), experience drone technology, and/or see robotics in action.
- In addition, there will be a Resource Fair for the students, featuring Colorado technology businesses and organizations and a Colorado National Guard helicopter display.

Interested students should pick up an application in their high school guidance office.

DEADLINE TO APPLY: Thursday, October 17, 2018