

# UCF AVIATION CHALLENGE EXPO



**Institute for Simulation and Training**

Created by UCF's Institute for Simulation and Training, the Aviation Challenge Expo, a one-day experiential learning event, hosted 102 students from Orange, Osceola, and Seminole County Schools to explore aviation / aerospace careers.

Students competed in flight challenges for prizes, engaged with industry experts, heard from student and professional pilots, participated in interactive exhibits, and connect with aviation and aerospace programs across the Central Florida community.

The event successfully fostered excitement and inspiration for the next generation of aviation and aerospace professionals. We are looking forward to continuing UCF ACE in 2025. To find out more or to get involved, please reach out!

[metil.org/UCF-ACE](http://metil.org/UCF-ACE)



## UCF STEM AVIATION SHOWCASE

**EXPERIENCE THE JOY OF FLIGHT**

For additional information please contact:  
 David Metcalf  
 Email: [David.Metcalf@ucf.edu](mailto:David.Metcalf@ucf.edu)  
 Phone: 407-882-1300



# UCF STEM AVIATION SHOWCASE

**EXPERIENCE THE JOY OF FLIGHT**







## OVERVIEW

UCF's Institute for Simulation and Training (IST) promotes STEM education and aviation careers through the UCF STEM Aviation Showcase (USAS). USAS features flight simulators, drones, and rotating STEM exhibits, with traveling and semi-permanent installations at STEM-focused sites like the Cade Museum.

In its first year, USAS engaged thousands of students at 20 events with 150,000+ attendees. Now, USAS seeks to grow its reach by partnering with schools, STEM programs, and communities to provide flight simulators at events, education, and outreach.

UCF IST hopes to grow its partnerships with Central Florida communities to reach as many students as possible, through STEM events, curriculum, and our own UCF Aviation Challenge Expo!

A huge thank you to the Cade Museum, Kennedy Space Center, Blue Origin, Orange County Public Schools, Starbase, Orange Technical College, TEQGames, Orange County Government, Central Florida STEM Council and future USAS sponsors. For more information or to discuss sponsorships, partnerships, events or volunteering, contact:

David.Metcalf@ucf.edu 407-882-1300  
<https://www.metil.org/usas>

This is a list of recommended programs and organizations for someone with an interest in aviation:

### Experimental Aircraft Association

- Orlando Florida Chapter EAA 74: A gold level chapter of the EEA based out of the Orlando Executive Airport.
- Orlando Young Eagles Provides free airplane rides for members ages 8-17, Aviation classes for members 12-17, and ground school for ages 17+.

### Academy of Modern Aeronautics

### Professional Pilots of Tomorrow

### Seaplane Pilots Association

### Soaring Society of America

### United States Hang-Gliding and Paragliding Association

### Balloon Federation of America

### Drone Racing League

*"When once you have tasted flight, you will forever walk the earth with your eyes turned skyward, for there you have been, and there you will always long to return."*

– Leonardo DaVinci



## Activities

Apps and activities featured by USAS:

### PC:

- Prepar3D
- Microsoft Flight Simulator 2020/2024
- VR Talon Flight Simulator
- The Drone Racing League Simulator
- Consumer Drone and Obstacle Course

### iOS:

- Drone Racing League Arcade
- DRS Drone Flight Simulator
- Drone On My Phone

### Android:

- Drone Racing League Arcade
- Drone Duels
- Blue Angels
- Infinite Flight
- Real RC Flight Sim 2016
- Flight Pilot Simulator

### STEM:

- Unreal Engine Flight Sim Development