

## 2019 Design Build Fly Competition

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**The Design Build Fly Competition**, in its 23<sup>rd</sup> year, invites student teams to design, fabricate, and demonstrate the flight capabilities of an unmanned, electric powered, radio-controlled aircraft to meet a specified mission profile. The competition gives students the opportunity to validate and apply their analytic studies in a challenging and fun environment. The organizing committee, which comprises of representatives from the sponsoring organizations and the AIAA Aerodynamics, Aircraft Design, Design Engineering and Flight Test Technical Committees, selects a new topic each year to encourage innovation and maintain a fresh design challenge annually.

## 2019 Logistics and Partnership Opportunities

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**2019 Date/Location:** The fly-off will be held 11-24 April 2019 in Tucson, Arizona

**2019 Challenge/Mission:** To design a multi-purpose aircraft to support carrier operations

**2019 Sponsors to date:** **Primary:** Raytheon and Textron Aviation; **Bronze:** FlightStream

**\$5000 (Gold) Partnership Opportunity:** AIAA will provide your organization a 6' table in a shared 10 X 10 pop up tent. Electricity will be provided. WiFi will not be provided. We will recognize your partnership with recognition on-site during the opening and closing remarks, on the competition web site and t-shirts, and on-site graphics.

**\$2500 (Silver) Partnership Opportunity:** AIAA will recognize your partnership with recognition on-site during the opening and closing remarks and on the competition web site.

**(Bronze) Partnership Opportunity:** AIAA will recognize your organization on the competition web site for your commitment to provide complimentary resources to support the competition.

- Volunteer and speaker opportunities are also available to further engage on-site. In addition, more specific and tailored sponsorship opportunities are available and can be discussed to meet specific needs.

## AIAA Foundation

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In partnership with AIAA, the AIAA Foundation inspires and shapes the next generation of aerospace professionals through innovative educational programs and recognition. The AIAA Foundation's initiatives include K-12 science, technology, engineering, and math (STEM) education programs including classroom grants and hands-on activities, college scholarships, design competitions, student conferences, and recognition awards.

For more information, please visit: [www.aiaadb.org](http://www.aiaadb.org) or contact Merrie Scott, 703/264-7530 or [merries@aiaa.org](mailto:merries@aiaa.org)  
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## 2018 Highlights



**Date/Location:** The fly-off was held 19-22 April at Cessna Field, in Wichita, KS 67207.

**Participation:** 134 proposals were received; 101 were accepted to submit design reports; 77 teams showed up on-site (16 International); 750 students were in attendance; and 245 flight attempts were made.

**Challenge:** To design a dual purpose regional and business aircraft.

**Sponsors: Primary:** Textron Aviation and Raytheon; **Gold:** Airbus, General Atomics, MathWorks, AeroVironment; **Silver:** Aurora Flight Sciences, Spirit AeroSystems, and Siemens; **Bronze:** AEROLAB, Cutshall Consulting LLC, Esteco, FlightStream, SIMSCALE, and Southwest Research Institute.

**Winners:** At the end of the competition and based on a combination of report score, rated aircraft cost, and mission success, the top three teams were Clarkston University, Virginia Tech, and Georgia Institute of Technology.



*Pictured to the left is Ashleigh Heath, a then-freshman who was a pilot at the 2018 Design/Build/Fly Competition*



*"You can find value in just about every aspect of this competition, whether it is technical or team building. There are no easy answers. It forces you to solve challenging problems and become a better engineer." Aaron VanLandingham, USC team lead*