



## We Need Your Support!

Our organization is student run and lead under the guidance of a faculty advisor. We provide students with the opportunity to acquire hands on experience designing, modeling, testing, and building an airplane from start to finish.

We rely on external funding to:

- Obtain materials
- Build the aircraft
- Run wind tunnel tests
- Attend competition

Sponsors may be recognized in our project documentation and some will be represented by decal on our aircraft\*.

Thank you for your consider and support! We value everything you have done for our team!

\*We have attached a donor form with a letter explaining why this organization is so important to us

## Contact Us

### General Inquires

Email: [tamusaeaerodesign@gmail.com](mailto:tamusaeaerodesign@gmail.com)

### Contact Us

If you are interested in making a donation or learning more about SAE Aero Design Team, please contact Rachel Fowler:

Phone: [626-940-8734]

Email: [[rachelfowler386@tamu.edu](mailto:rachelfowler386@tamu.edu)]

To follow our organization's progress online, check out our website:

Web: [[aeweb.tamu.edu/aerodesign](http://aeweb.tamu.edu/aerodesign)]

For more information regarding the SAE International Aero Design Competition see:

Web: [[students.sae.org/cds/aerodesign](http://students.sae.org/cds/aerodesign)]



Texas A&M  
University

SAE Aero Design  
Team



Texas A&M University  
[701 H.R. Bright Bldg  
3141 TAMU  
College Station, Texas 77843]



## We Are Innovators.

In 1986, SAE International set out to provide students with the opportunity to solve real world aerospace engineering challenges. Each year since then, a competition has been held wherein student teams are given mission requirements and limitations, designed by SAE International, that mirror real world scenarios. The teams are evaluated on how well their design meets these challenges, as well as their ability to communicate their solutions. As a final product, each team is required to build and test a final design for each class, write out a design report, and make an oral presentation outlining their findings and accomplishments. This year, 150 teams of college students will gather from all over the world to participate in an SEA Aero Design Challenge.

Texas A&M's SAE Aero Design Team, an intercollegiate engineering team, will again participate the SAE Aero Design competition. As a team, our goals are to develop our own design and communication skills as we help to make air transport safer and more efficient. We also hope to represent Texas A&M positively in this international spotlight.

In 2009, with a team of 8 students, Texas A&M formed its first SAE Aero Design team. Each year since, the team has competed against 74 other teams in an international competition testing their ingenuity and perseverance. Since then our organization has grown and we continue to challenge the design standards, continuously innovating and adapting to new design criteria.

While preparing for competition, students use a design process similar to those used in the engineering industry. Team members are encouraged to develop ideas and support them with experimentation and technical analysis. This develops a learning environment that mirrors an engineering workplace, and gives team members an increased opportunity to apply their classroom knowledge.

Last year's aircraft design was driven by the objective to maximize profitability of our transport class aircraft. For the powerplant and take-off restrictions, the volume of passengers and luggage was maximized while maintaining take-off field and powerplant requirements. The team focused on conceptual trade studies, detailed subsystem analyses, configuration optimization, and performance verification to arrive at a final configuration which most reliably generated revenue with its large passenger to payload lifting capacity at an inherently robust risk factor.

This year we hope to take competition by storm and win the entire competition.

Thank you for your consideration and interest in our organization.



## We Are Winners.

Texas A&M's Aero Design Team is one committed to excellence. Every year, while competing against roughly 80-100 teams world wide, our Aero Design Team has continuously proven to be one of the best in the nation. Some of our awards received in competition over the last four years include:

2018

- First Place American Team
- Fourth Overall, First in Design Report, Third in Oral Presentation

2017

- Regular: Second Overall, First in Oral Presentation
- Micro: Third Overall

2016

- Regular: Second in Design Report

2015

- Regular: 3rd in Design Report (Top Ranked US Team)