2020-21 Sponsorship Information

Design Build Fly

at the

UNIVERSITY of WASHINGTON
Dear Potential Sponsor,

Despite the interference due to COVID-19, the generous contribution from our sponsors allowed our team to create a strong competition aircraft this past year. Additionally, despite not being able to attend competition, the team saw a lot of progress in member retention rates, research projects, and design innovations that have set us up for success in the upcoming 2020-21 year. As we look forward to competing this year, we have also focused on creating additional peer to peer learning opportunities in order to continue to support and foster the growth of the next generation of engineers. Since we are a student-run organization, we rely on support — be that material, monetary, or even mentorship — to continue our mission to “Educate and Compete.” We greatly appreciate any donation to the team and the following packet outlines how we plan to use contributions in addition to how we give back to the organizations that support us. On behalf of the team, thank you for your time and consideration.

Best,

Ethan Uehara
Chief Engineer 2020-2021
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The Design, Build, Fly team at the University of Washington is a student-run organization with the mission of providing large-scale project experience to the student population of the university. The team competes in the AIAA Design Build Fly competition, in which the AIAA assigns each team several flight missions and a list of design requirements that must be completed by the RC aircraft submitted to the competition. Our team rigorously examines these mission parameters in order to design, construct, and fly an aircraft optimized to best fulfill that flight criteria.

Unlike many other AIAA DBF engineering teams, DBF at UW is primarily composed of freshman and sophomore students. In fact, DBF was founded specifically to provide a hands-on team oriented experience to younger students to facilitate the growth of the skills necessary to succeed in industry. By focusing on collaboration, communication and individual voice, DBF creates an inclusive team environment that produces high quality products and engineers.
The Team @ DBF

Students have the ability to specialize in one of the following teams or work with multiple in order to build a variety of skills related to the aircraft design/build process. Each team works with a very specific aspect of aircraft design and the Leadership team works to ensure strong cross-communication between the sub-teams. As of 2019 DBF at the UW is 70 members strong!

STRUCTURES TEAM

- Designs all load bearing components with FEA simulation.
- Is responsible for the build integration of all subassemblies.

PROPULSION/AVIONICS TEAM

- Designs the powerplant and avionics system for the aircraft.
- Responsible for mission specific maneuvers and controls.

AERODYNAMICS TEAM

- Responsible for exterior geometry of the aircraft.
- Runs CFD simulations to predict aircraft performance.
- Compares wind tunnel data to predictions.

MATERIALS RESEARCH TEAM

- Discovers new materials and manufacturing methods primarily for the fuselage and wing systems.
- Is currently investigating composite materials.

MANUFACTURING TEAM

- High detail fabrication of the aircraft during build days.
- Responsible for fabricating design related proof of concepts.
- Interprets the design criteria and builds the necessary parts for the aircraft.
- Creates Prototype #1 during design phase.

CAD TEAM

- Responsible for integration and compilation of work across all teams.
- Validates design through 3D modeling and simulations.
Business Promotion

As part of a sponsorship, your company’s logo will appear on all DBF promotional materials, including team shirts, reports, and the plane itself. Your company will be recognized by the team’s members and followers and will be visible at the DBF competition to over 100 universities across the globe. If requested DBF will keep company fliers on hand for distribution at large team events and competition.

Student Experience

Students working with the team will develop the skills and experience with your products that will carry over to their professional career.

Recruitment

By sponsoring DBF, your company will have a direct impact on the students on campus, especially in terms of their engineering experience. This gives you direct access to a pool of talented young engineers with experience working in large-scale aeronautics projects.
What Will Your Sponsorship Be Used For?

Sponsorships to the DBF team usually come in two forms – monetary and equipment. For equipment sponsorships, we can guarantee that anything provided to the team will be used not only to develop and optimize our aircraft, but also to teach our members industry standards and knowledge that will help them become better engineers. Monetary amounts will be allocated to the following categories depending on their fair market value and the needs of the team, unless specified directly by the sponsor.

**Proposed 2020-21 Budget**

- Equipment: $1,000
- Structures: $5,000
- Propulsion: $3,500
- Avionics: $2,500
- Travel: $7,000

For additional questions, please contact the Chief Engineer directly or send an inquiry to dbfuw@uw.edu
Thank You For Your Assistance

Our team depends on sponsors like yourself to fund our mission. With these resources, we can educate members of our team and compete against the best universities in the world.

By supporting our team and our efforts to provide opportunities for new and old students, you are ensuring that the future of aerospace is taken up by a new generation of avid engineers, ready to push the bounds of aircraft even further.

Thank you for your consideration, and we hope that you will join us in our mission to support the engineers of the future.