DARcorporation News

March 2017

Aerodynamic Design and Analysis

DARcorporation engineers are capable of performing detailed aerodynamic design and analysis on any vehicle or object that travels through the air. Our computational fluid dynamics (CFD) tools and expertise, coupled with our wind tunnel test management experience, equips us to handle any type of project.
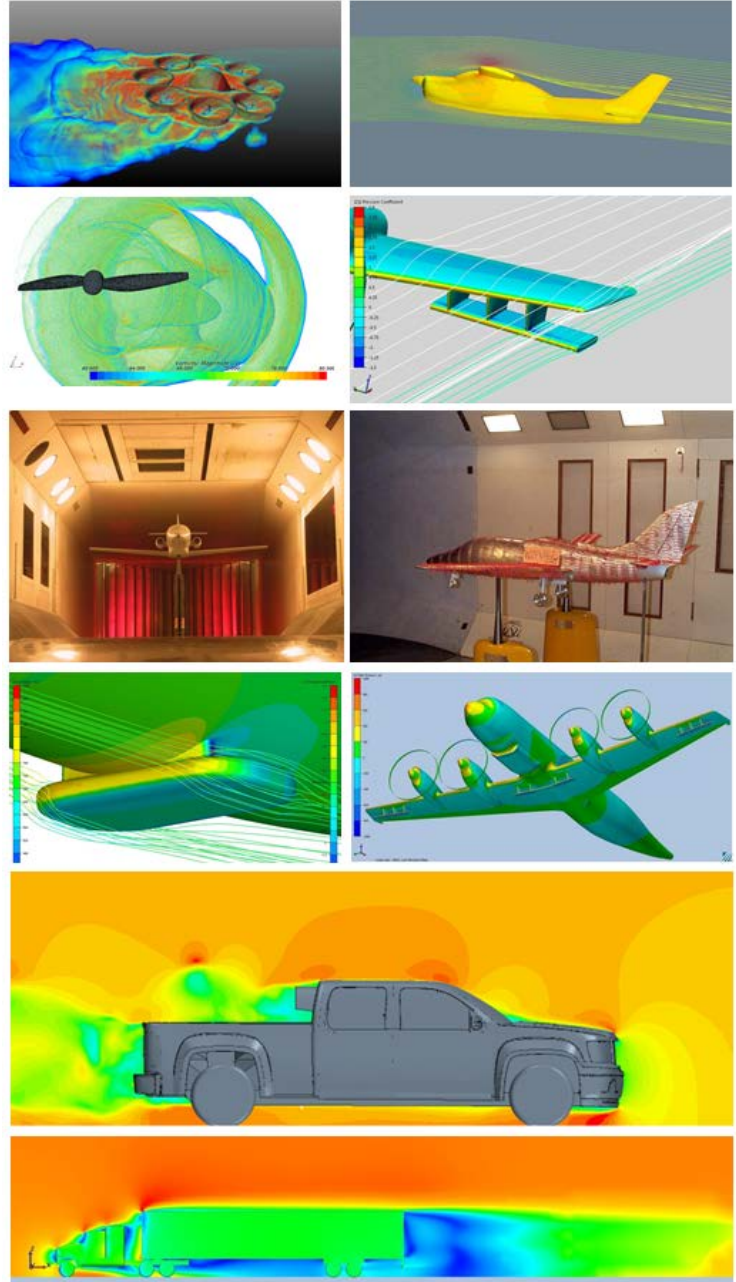
CFD Simulation

Siemens STAR-CCM+ is our CFD software of choice. It's a robust platform with an extensive range of functionality that give us the ability to take on the most challenging aerodynamics problems. Coupled with our Advanced Aircraft Analysis (AAA) software, the CFD results aid in aerodynamic and stability & control analysis for conventional and unconventional aircraft.

Wind Tunnel Testing

We have extensive experience in conducting wind tunnel testing programs of all sizes, which consists of managing the model development, developing the test plan and post processing the data. We can develop performance models, conduct stability & control analysis and suggest design improvements using the wind tunnel results. We use the experimental facilities at The University of Kansas, Wichita State University and The University of Washington and have done subsonic and transonic testing.

Types of Projects Include:

- Airplanes
- Rotorcraft
- UAVs and Drones
- Aircraft Modifications
- Propellers, Fans and Wind Turbines
- Cars and Trucks
- Acoustic Anaysis
- Thermal Analysis
- Wind Tunnel Aerodynamic Design

Let us know how we can support your projects!

Contact Us