Real World Design Challenge

The Real World Design Challenge is a *Free* annual high school competition run by a public-private partnership with the goal of sustainably increasing the Science, Technology, Engineering, and Mathematics (STEM) workforce. Teams of 3-7 secondary school students design a plane looking at the forces of flight, lift, weight, thrust & drag with the goal of enhancing performance and fuel efficiency. Each team is supported by professional mentors.

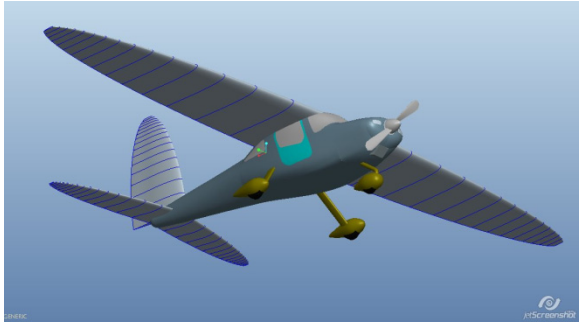
Baldwin High School Team-2012 National Aviation Champions

The Real World Design Challenge partners bring a broad base of resources and expertise from business, government, and academia. The RWDC students have received recognition for their work from leaders in government, industry and education.

President Obama review the RWDC 2010 National Winner's Work at the White House

The Challenge is *free* to teachers and students. *Each teacher gets $1 million in professional engineering software and teams get access to professional mentors.* Thirty-nine governors have supported the "Governor's Challenge" at the state level. The national competition is held each year in Washington, DC.

Numerous designers, mentors, and judges from across industry, government, and academia have been key to the success of the program by donating their expertise to design the Challenge, share their knowledge with students, and evaluate the students work.



Student Design

The Challenge is "Real World" in the following ways:

(1) *Real Problem*: An Industry defined problem provides a practical application of classroom curricula;
(2) *Real tools & Resources*: Inspire students by showing them what is at their fingertips;
(3) *Real Roles for Students*: Require teamwork, leaderships, Innovation & problem solving skills;
(4) *Real Contribution*: Students can make a difference, solving industry-based problems.

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Getting involved:
To partner or for additional information contact: Dr. Ralph K. Coppola, Real World Design Challenge Director: phone: 703-298-6630, email: rcoppola@ptc.com or go to www.realworlddesignchallenge.org.

Registration is open on the RWDC website.

RWDC Promo video link
http://www.youtube.com/watch?v=smUjDJwHGbw&feature=player_embedded.