

SOLVING

the Challenges of Space in the RealWorld and InWorld

ENGINEERING STUDENTS ...



You and your skills are needed to lead the next generation of scientists, engineers, and mathematicians in the RealWorld-InWorld NASA Engineering Design Challenge (RWIW).

This two-phased competition encourages middle- and high-school-aged students to explore and build skills essential for successful careers in science, technology, engineering, and math (STEM). In the second phase of this Challenge, the virtual InWorld setting, **you** will lead a team of 2-4 students who have completed a RealWorld or Phase 1 design.

PHASE 1—REALWORLD

Before you enter the Challenge, teams of middle- and high-school-aged students work initially with their teachers/coaches/parents through the RealWorld Phase. These teams solve problems related to the James Webb Space Telescope or Robonaut 2. Final RealWorld solutions must be submitted by **January 27, 2012**, for teams to be considered for the InWorld Phase.

PHASE 2—INWORLD

As the Team Leader, you will begin your work during the InWorld Phase. Under the supervision of the National Institute of Aerospace (NIA), you will select the RealWorld team you will lead within a 3D online virtual world environment. Your task will be to help your team bring its RealWorld design InWorld using 21st Century tools to refine the designs and create 3D visual models. Participation in Phase 2 is limited to U.S. citizens.

Throughout the Challenge, NASA researchers will meet with you and your team to offer ideas and answer questions. By leading a team, you will develop leadership skills as you help young people explore engineering and STEM careers.

Ready for the Challenge?

- Visit the RWIW website (www.nasarealworldinworld.org) and review the details of the Challenge's InWorld Phase.
- Register as a Team Leader no later than **January 15, 2012**. You must have a professor sponsor your work to verify your qualifications to lead a team.
- Beginning January 28, 2012, use the online selection process to choose the team you will lead. The InWorld Phase will run from January to April 2012.
- Work virtually with your team to complete the InWorld Phase of the Challenge.
- Online tutorials and resources will guide you and your team through the process.
- Members of the winning team, including Team Leader, each earn \$1,000 and a letter of commendation from NASA and NIA. Contest rules apply.



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