

SOLARWINDS

the Challenges of Space in the RealWorld and InWorld

Engineering students . . .



Want to lead the next generation of scientists, engineers, and mathematicians and **possibly earn college credit** in the process? Then join the RealWorld-InWorld NASA Engineering Design Challenge. This two-phased competition encourages high-school-aged students to explore and to build skills essential for successful careers in science, technology, engineering, and math (STEM). College students are needed to lead teams of 3-5 students in grades 9-12 and their teacher/coach during Phase 2, the **InWorld** (virtual reality) component. Phase 2 begins January 15, 2011, and runs through April 14, 2011.

Phase 1 — RealWorld

Teachers/coaches and high-school-aged students will collaborate to explore and design solutions to real-world problems related to the James Webb Space Telescope. Final RealWorld project solutions submitted by **January 15, 2011**, are eligible to move into the InWorld Phase 2.

Phase 2 — InWorld

Under the supervision of the National Institute of Aerospace, college engineering students will select a RealWorld team to lead during the InWorld Phase. These teams will work in a 3D virtual environment using 21st Century tools to refine designs and create 3D models of the Webb telescope. Professional engineers will be assigned to each team. Online tutorials and resources will guide you through the process. No special skills or equipment are needed.

By leading a team, you will develop leadership skills as you help young people explore engineering skills and careers. Students will also collaborate with NASA engineers and learn about opportunities at NASA.

Engineering students will need professor sponsorship to participate in the Challenge.

Participation in Phase 2 is limited to U.S. citizens.

Ready for the challenge?

To learn more about the challenge and register for this **free** project, visit www.nasarealworldinworld.org Complete **Basic Registration** to explore Challenge resources. Complete **Advanced Registration** by **January 15, 2011**, to commit to leading a team.



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