



**ENGINEER
YOUR WORLD**
THE UNIVERSITY OF TEXAS AT AUSTIN

COCKRELL SCHOOL OF ENGINEERING

UTEACH ENGINEERING

An Innovative Curriculum for High School Engineering Design

The Cockrell School of Engineering at The University of Texas at Austin is pleased to offer *Engineer Your World*, an innovative, year-long high school engineering design curriculum for students who want to learn about engineering and its role in shaping our world.

Benefits of the Curriculum

Rigor and Relevance

Developed by a team of University of Texas faculty and NASA engineers, *Engineer Your World* engages students in authentic engineering practices in a project-based environment. Students complete a series of socially relevant design challenges to develop engineering design skills and habits of mind.

Versatility

Engineer Your World is taught successfully in grades 9 - 12 by educators from diverse backgrounds. Our partner schools include

- Engineering academies, STEM schools, and comprehensive high schools;
- Single- and mixed-gender schools;
- Public and private schools;
- Urban, suburban and rural schools; and
- Schools serving students across the socio-economic spectrum.



The Student Experience

Students Discover How Engineering Shapes Their World

Engineer Your World highlights engineering's potential to impact human lives and the world around us. Students discover how engineers

- Create solutions for people;
- Use a creative design process;
- Make data-supported design decisions;
- Improve lives;
- Design the products of our everyday lives;
- Use computational thinking to develop solutions; and
- Collaborate to solve complex challenges.

Students Develop Engineering Design Skills

Engineer Your World uses a unique, multi-level engineering design process that is both accessible to high school students and authentic to the experience of professional engineers.

Students Build Engineering Habits of Mind

Students in *Engineer Your World* develop and practice the engineering skills and habits of mind that are central to the engineering profession and that distinguish it from other scientific and technical fields.

Students Explore Engineering Fields and Professions

Engineer Your World covers the breadth of engineering fields and professions so that students can make informed decisions about pursuing engineering.

To learn more about this innovative program and how your school can join, visit:
www.engineeryourworld.org