

Event Profile - Engineering Design

Engineering Design is a group event for up to 6 high school members.

This event tasks members to find a solution to an annual theme or a problem that is currently being tackled by engineers. Students are to find a solution to this issue and are expected to be able to defend their solution to a panel of judges.

At the beginning of the conference, participants are expected to turn in the following:

- A physical model or prototype
- A display board
- A portfolio of documentation materials such as scientific or mathematical evidence, explanation of importance, sources, and a plan of work

For the semifinalist level, 3 participants will present their solution formally to judges, which is followed by a question and answer portion.

This event helps prepare students for future experiences in engineering, as well as building collaborative and communication skills. Students also practice thorough research and creative problem solving in real world contexts.

Below is an example product from the Engineering Design 2017 competition, where the theme was Providing Access to Clean Water.

