

**SCIENTISTS
ASK QUESTIONS
ENGINEERS
DEFINE
PROBLEMS**

**SCIENTISTS
EXPERIMENT
ENGINEERS
TEST THEIR DESIGN**

SCIENTISTS + ENGINEERS WORK AS A TEAM

HOW TO BE A STEM SUPERSTAR!




**Follow these steps
to explore an issue in
your community.**

**SCIENTISTS
+ ENGINEERS
ANALYZE
DATA**


**SCIENTISTS
CONSTRUCT
EXPLANATIONS**

**ENGINEERS
DESIGN SOLUTIONS**


CHECK IT OUT! Here's how teens are using two popular STEM processes—scientific inquiry and engineering design—to improve people's lives:



Building and testing a “smart shower tracker” that saves water by alerting you when you’ve showered for too long



Researching and testing ways that local firefighters can reduce their exposure to cancer-causing chemicals by washing their uniforms more often



Conducting soil experiments to help farmers keep more carbon in the soil, which reduces carbon in the atmosphere

Ready to innovate?

LET'S GO!



NO FEE OR PURCHASE NECESSARY TO ENTER OR WIN. Void where prohibited. The Competition is open only to full-time high school students in a public, private, or home school that is in compliance with the laws and regulations of its state/district and who are residents of the above. A complete team of three to four students and a Team Advisor must be registered by January 5, 2022, at 11:59 p.m. ET. Mission Folders (the complete competition print) may only be submitted electronically by the Team Advisor by March 2, 2022, at 11:59 p.m. ET at explorations@mission.org. See Official Rules for full entry and prize information. Prizes: Each student on the first-place national winning team will receive up to \$10,000 in savings bonds. State, regional, and honorable mention team prizes will also be awarded.



AETOP
ARAB EDUCATIONAL
TECHNOLOGY ORGANIZATION FOR
PEOPLE

Ecybermission
ACCEPT THE CHALLENGE