



LOCKHEED MARTIN ENGINEERING EXPLORER POST



WHAT IS LOCKHEED MARTIN'S ENGINEERING EXPLORER POST?

Lockheed Martin's Engineering Explorer Post is designed to give area high school students a behind-the-scenes, first-hand experience with aerospace engineering and technology. The LM Explorer Post, open to all area High School students, meets every other week for 8 months. Students will hear from industry experts on various space programs including Maven, Insight, Osiris-Rex and Orion. Student participants will also complete a number of hands-on engineering activities and have the opportunity to take part in a final design project. For this final challenge, student teams will design and build a capstone project with their peers for an engineering-related objective. Students will have the opportunity to tour Lockheed Martin's various facilities at the Waterton campus as well as the engineering school at the University of Colorado at Boulder. Lockheed Martin Engineers volunteer their own time as advisors to help run this program and can be approached for mentoring opportunities throughout the year.



SEE WHAT OTHER ENGINEERING EXPLORER STUDENTS HAVE BUILT

- 2010 Solar Powered Golf Cart Conversion
- 2011 Designed and Built Working Rover
- 2012 Designed and Built Rockets w/ payload
- 2013 Designed and Built Giant Catapults and Trebuchets
- 2014 Designed and Built Underwater Remotely Operated Vehicle
- 2015 Modified Unmanned Aerial Vehicles for a Challenge Course

WANT TO SIGN UP FOR THE POST?

Register online at our website: www.engpost.org

NOTE: Student Participants MUST

- Be in high school
- Be able to attend meetings one evening every other week from 6-8 P.M., September through May
- Pay a membership fee at the first meeting: \$75 per student annually (less than \$4 per meeting!)

A TYPICAL EVENING IN THE LOCKHEED MARTIN EXPLORER POST:

Guest Speaker and Tour Nights

- Hear from real-life Astronauts, NASA officials and industry engineering experts
- Learn about space hardware being built right here in Colorado
- Tour local engineering schools and various Lockheed Martin Waterton facilities
- Learn first-hand from Lockheed Martin engineers, advisors and mentors

Design Nights

- Work fast, think fast and build fast as you compete with other student teams
- Make a "homemade" working rover (like the ones on Mars!)

Final Project Nights

- Work with a student team on designing and building a final project
- Build rockets, payloads that go to the edge of space, giant catapults and more!