

Engineering New Mexico Resource Network

Learn More:

enr.nmsu.edu/outreach.education.shtml

Science, technology, engineering, and mathematics education programs are the heart of today's high-tech, high-skilled global economy. In order to ensure that the U.S. remains economically competitive, it is critical that we develop the next generation of leaders and innovators who are prepared to meet our nation's needs. The College of Engineering offers several highly recognized pre-college programs for students enrolled in middle school or high school, as well as those already attending NMSU. These programs encourage and support students in their pursuit of STEM degrees. Our faculty and staff are committed to engaging students in innovative, hands-on experiences that apply critical-reasoning and problem-solving skills by exposing them to real-world engineering challenges.

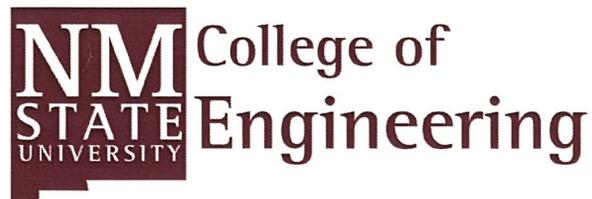
- ♦ NM PLTW: Project Lead the Way
- ♦ NM PREP: Pre-freshman Engineering Program
- ♦ NM BEST Robotics: Boosting Engineering, Science and Technology Robotics



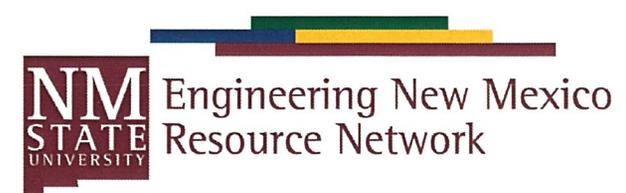
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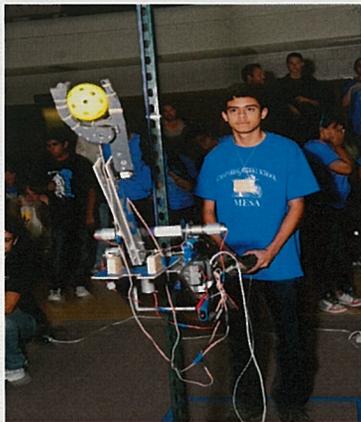
STEM K-12 Outreach Programs



NM BEST Robotics

The College of Engineering serves as the Hub Directorate for BEST (Boosting Engineering, Science and Technology) robotics in the state of New Mexico and for El Paso, Tex.

The BEST competition challenges middle and high school students to build a remote-



Students from Chaparral Middle School- Chaparral work to score points during the competition using their teams' robotic design .

controlled robot that accomplishes defined tasks in a competitive setting. Additionally, the students are required to document their progress and marketing efforts in a business setting. NM BEST Robotics teams have the opportunity to advance to regional competitions.

BEST is designed to inspire and interest students in engineering, science, and technology through participation in an exciting sports-like technology competition.

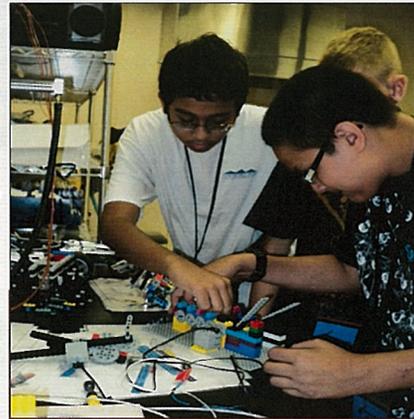
NM BEST Information

On-line registration begins June 1	Tracey O'Neil 575-646-2913 enr.nmsu.edu/best/index.shtml
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NM PREP

The Pre-Freshman Engineering Program, offered by the College of Engineering, engages pre-college students in a four-week, academically intense summer program with the goal of preparing them for careers in science, technology, engineering, and mathematics.

Participants may begin the program as early as seventh grade and attend for up to four years prior to high school graduation. PREP is open to everyone, however, priority is given to female and minority populations traditionally underrepresented in the STEM fields.



PREP surveyed the 444 former participants who are now of college age: 100 percent graduated from high school, 52 percent declared majors in STEM fields, 93 percent cited attendance at universities in New Mexico.

NM PREP Information

Student applications due March 1.	Elizabeth Franzoy/Tracey O'Neil 575-646-5894/575-646-2913 enr.nmsu.edu/prep/index.shtml
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NM PLTW

Project Lead The Way (PLTW) is the leading provider of rigorous and innovative STEM education curricular programs used in middle and high schools across the U.S. As the NM University Affiliate, the College of Engineering works with schools to engage students in activities, projects, and problem-based learning through hands-on classroom experiences. Students engaged in PLTW create, design, build, discover, collaborate and solve problems while applying what they learn in math and science. The curriculum is provided free of charge to registered schools. Program focus is on pre-engineering and bio-medical engineering



Close to 90 percent of students involved with PLTW graduate from high school and 85 percent of those go on to attend post-secondary school.

NMSU hosts Summer Training Institutes for teacher training, as well as focused conferences for school Counselors. NMSU also offers on-line Core Training for participants.

NM PLTW Information

Core training registration ends June 1	Sonya Cooper/Patricia Sullivan 575-646-2913 pltw.nmsu.edu
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