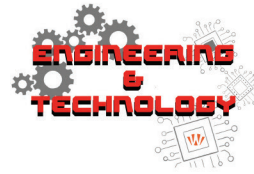


STUDENTS WILL:

Participate in multi-disciplinary projects in electrical, civil, mechanical, aerospace or other engineering disciplines.

- ✔ Build awesome projects that teach engineering concepts by making rockets, building and soldering circuits, or designing and programming digital devices.
- ✔ Experience how engineers work in teams to solve challenges.
- ✔ Think like engineers while building critical thinking, communication and collaboration skills.
- ✔ See real-world engineering projects while learning about future career possibilities through trips and behind-the-scenes tours.
- ✔ Engage with working professionals
- ✔ Learn new skills and engage in hands-on projects that explore how engineers can solve real-world problems.



Engineering & Technology Summer Institute is Sponsored by:

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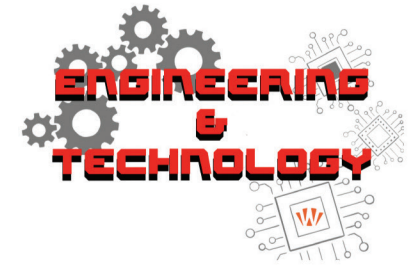
Camp Staff:

John Cropper	PhD GeoScience
Ron Berry	BS, MS Aero & ME
Nick Clement	BS Geology
Ty White	BEd, MEd, STEM
Gayle Berry	PhD Systems Engr
Paola Barraza	Chief Tech, WTA

Contact Info:

Summer Institute
willcoxtheater@gmail.com
PO Box 217
Willcox, AZ 85644
520-766-3335

Willcox Theater and Arts, Inc. is an Equal Opportunity Provider



SUMMER INSTITUTE



June 3-14, 2024

10 action-packed days at our Engineering & Technology Summer Institute will spark enthusiasm in engineering and technology for the next generation of problem solvers

Participate in team-based, hands-on design challenges, hear from and interact with working engineers, and experience off-campus site visits to engineering sites.



PROJECT EXAMPLES:



Micro-controllers and Mechanical Engineering:

Use mechanical design principles to design and construct a bubble blowing machine and program a micro-controller operating servos and motor and see how your design works. Let your inner engineer take over and build something you think will work, and test it out.

Skills: Programming, mechanical design, component integration and problem-solving



Electrical Engineering:

Build a fully operational AM radio and learn the basic theory of AM radio operation.

Skills: master the art of soldering, then solder a functional circuit for the radio. All students learn to solder safely and effectively.



Rocket Design:

Starting from a basic kit, modify the nose cone and fin design to your specifications and use 3D printed components to finish assembling the rocket. Rocket launch and recovery will test your design concepts.

Skills: Tinkercad 3D Design software, 3D printing, measurement and test data analysis.

GENERAL INFORMATION

This is not just an engineering summer camp; it's a journey of discovery that could spark a lifelong passion for engineering and innovation. Don't let your teen's curiosity go to waste. Unleash their inner engineer and sign them up for the Engineering Technology Summer Institute today!

Through hands-on projects, interactive workshops, and industry tours, students will get real-life experience, explore different engineering fields, and meet inspiring professionals shaping the future and running the present.

All that is required is a desire to learn! Students with any level of engineering experience are welcome! Our Engineering & Technology Institute will introduce everyone to the principal areas of engineering.

SITE VISITS INCLUDE:

U.S. Army NETCOM - Network Enterprise Technology Command

Arizona G&T Cooperatives - Apache Generating Station

Northrup Grumman - Tactical & Autonomous Capabilities

Enrollment

- ✓ Students ages 12 – 17, entering grades 7-12 in the fall
- ✓ No letters of recommendation, transcripts, essays or references required
- ✓ All levels of students are accepted, whether you have a little or a lot of engineering and technology experience

Institute Includes

- ✓ All supplies
- ✓ Daily lunch, including Five Lunch & Learn sessions with real-life engineering and technology pros
- ✓ Institute t-shirt
- ✓ Transportation for Institute Site Visits
- ✓ Classes each day from 9:30 – 3:30 (some days start earlier or end later due to site visits)
- ✓ Team Project Presentations on the last afternoon

Application:

Total Student Fee: \$50
First Come First Served –
Applications open April 15

Applications are not complete until a signed Release and Registration form and Institute Fee (\$50) are submitted.



PARTICIPATING ORGANIZATIONS:

