

This is our exhibit list as of April 1. Please come back for exciting updates.

Fab Lab El Paso

El Paso's Nonprofit Makerspace and Stem Lab

Join us for demonstrations of our Lab's most popular digital fabrication machines and watch in amazement the 3D Printing process in action, and have a try at coding and programming Art-Bots to make dazzling pieces of art.

As an inaugural member of the NASA STEM Community Anchor Cohort, and in celebration of the April 8th lunar eclipse, Fab Lab's booth will also feature a special Solar Vehicle Build Challenge sponsored by NASA's Johnson Space Center's Texas High School Aerospace Scholars program. High school juniors and teachers can learn more about how they can earn a NASA summer internship!

Presented by: Fab Lab El Paso

<https://fablabelpaso.org/>

[SPOhttps://www.nasa.gov/learning-resources/high-school-aerospace-scholars/](https://www.nasa.gov/learning-resources/high-school-aerospace-scholars/)

Sponsored by Microsoft – Platinum Sponsor

Porfirio Fab Lab Juarez Binational Robot

Robots

Welcome to FabLab! We invite you to discover the infinite possibilities we offer you. Join us 3D pen creativity workshop, where you can bring to life a variety of creative designs. Immerse yourself in the fun with our memory games and puzzles, made with MDF. Come and experience innovation in action!

Meet Porfirio, a life-size Robot. Porfirio is a project aimed at promoting interest in STEAM careers in our community through the participation of the community itself in its development process. Currently, he reads stories,

visits allied civil associations, uploads TikTok, and wants to encourage ties of cooperation with the city of El Paso through interaction with his twin brother William

Presented by: FUNAX

<https://funax.org/en/home/>

Sponsored by Microsoft – Platinum Sponsor

Energy All Around Us

Energy Engineering

Description: Join us for fun, hands-on, STEM activities related the fluid hydraulics, chemical reactions, and more! These activities are designed to explore various concepts applied at the El Paso refinery every day. Come learn how science is used by Marathon Petroleum in downstream energy to make everyday life better!

Presented by: **Marathon Petroleum – Gold Sponsor**

<https://www.marathonpetroleum.com/Operations/Refining/El-Paso-Refinery/>

Water for the Future

Environmental Science

El Paso Water's Conservation and Water Resources departments have teamed up with Carollo Engineers to offer a virtual reality glimpse of EP Water's Advanced Water Purification Treatment Facility, due to begin construction in late 2024. The direct potable reuse facility will be the first of its kind in the nation and will add to the sustainability of El Paso's water system. Stop by to learn more about how El Paso Water ensures our water is of the highest quality and tips to save water every day.

Presented by: **El Paso Water - Bronze Sponsor**

<http://epwater.org/>

<https://www.tech2o.org/>

Watching over Texas from Space

Geography

Attendees will interact with colorful satellite imagery covering Texas State Parks using hands-on games, quizzes, puzzles, a scavenger hunt, and art activities (collages and maps). The satellite images of Texas show how scientists use such imagery to monitor Texas' changing landscape including the impacts of human development such as energy production, agriculture, forestry, and urbanization, as well as the impacts of natural disasters such as hurricanes, wildfires, flooding, and drought.

- STEAM art activities.
- thermal activities
- kite building.
- field spectrometer activities.
- stream table.
- reading activity for younger kids
- tabletop matching games
- floor puzzle spaces

Kids will be able to take home.

- their own art
- their own kites
- posters
- books
- games
- trading cards
- cards with QR codes that link to online games, books, and other science resources from the USGS and NASA

Presented by: AmericaView, TexasView, LouisianaView, New MexicoView, and UtahView

<https://americaview.org/>

The Physics Circus UACJ - Sound and Waves

Physics

The Physics Circus UACJ will present interactive demonstrations based on the fascinating concepts of resonance, vibrations, and sound. We'll also explore their relation to some musical instruments, making it a truly engaging and educational experience.

Presented by: Universidad Autónoma de Ciudad Juárez
Department of Physics - Engineering Physics Program

<https://www.uacj.mx/>

DinoTracks

Geology

Dino Tracks will have an interactive Dino Tracks activity and attendees can learn about opportunities at our Dino Tracks site in Sunland Park, NM.

Presented by: Insights

<http://www.insightstepaso.org/>

CIELO-G

Geology

Explore Earth's history through hands-on geology activities, unraveling the secrets of rocks, fossils, and the dynamic forces that shape our planet.

Presented by: UTEP College of Science
Department of Earth, Environmental, and Resource Sciences

<https://www.utep.edu/science/geology/>

The Mystery of Groundwater

Geology

Explore Earth's history through hands-on geology activities, unraveling the secrets of rocks, fossils, and the dynamic forces that shape our planet.

Presented by: UTEP College of Science
Department of Earth, Environmental, and Resource Sciences

<https://www.utep.edu/science/geology/>

Every Drop Counts

Geology

A drop in the bucket is an activity in which students can visualize and learn how much of the water available in the world is potable.

Presented by: UTEP College of Science
Department of Earth, Environmental, and Resource Sciences

<https://www.utep.edu/science/geology/>

Sound & Vision Remix

Mathematical Sciences

We present an interactive simulation encompassing two captivating segments designed for kids from K-12. We delve into the world of facial superimposition...In the second part, we transition to the realm of sound where a medley of sounds is superimposed and then deconstructed...fun and educational insight into the fascinating worlds of image and sound manipulation.

Presented by: UTEP College of Science
Department of Mathematical Sciences

<https://www.utep.edu/science/math/>

Rock Raffle: Reveal Earth's Wonders!

Geology

Geode raffle & cracking: to enter a raffle, participants have to gather information/stamps from other earth science topic booths.

Presented by: UTEP College of Science
Department of Earth, Environmental, and Resource Sciences

<https://www.utep.edu/science/geology/>

Physics Circus

Physics

We will offer a collection of Physics demonstrations based on mechanics, electricity, optics, and thermodynamics. People will be attended to in the booth by teachers and students.

Presented by: UTEP College of Science
Department of Physics

<https://www.utep.edu/science/physics/>

The Music of Movement: Explore Nerves & Muscles!

Biology

Our interactive booth activity aims to teach individuals on how the nervous and muscle systems work. To do this, we will be sharing information on the nervous and muscle systems, including how neurons communicate. We will also demonstrate this using microsimulation (through music) to excite the nerves in the leg muscles of a cockroach. Our audience will have the opportunity to choose music of different volumes and frequencies and observe how those changes affect the excitation of the nerves/movement of the muscles.

Presented by: Society for Neuroscience Sun City Chapter
<https://sites.google.com/view/sfnsuncity>

Dirt Detectives: Uncover Soil's Secrets

Geology

This booth will cover the impact of soil health on wider biodiversity. The booth will be broken up into several areas of interest highlighting what is soil, its impacts on its health, the organisms that dwell in it, and how we study it. 3D printed models, entomological specimens, interactive exhibits, and posters will be present.

Presented by: North American Rock Garden Society
<https://www.nargs.org/>

Secret Science of Being A Spy

Chemistry

Participants will go on a thrilling, scientific adventure as they participate in various activities to solve the mysteries of who stole the ultimate weapon: “The bubbler!” These activities will be devoted to finding the thief as they run tests involving fingerprinting, using UV light to find luminescent evidence, testing unknown compounds with various solutions, running tests to find the marker used to write the note left behind and discovering the secrets of invisible ink made with lemons. All the answers will point to the culprit!

Presented by: UTEP College of Science
Department of Chemistry and Biochemistry

<https://www.utep.edu/science/chemistry/>

Forecasting COVID-19 impact in El Paso

Mathematical Sciences

We present an interactive simulation to understand the impact of COVID-19 on the Hispanic community in El Paso, TX. We will show how mathematics can be used to forecast the number of COVID-19 hospitalizations when there is an emerging outbreak, and design pharmaceutical and non-pharmaceutical countermeasures to curb its burden. The audience can run their own analysis using their smartphones.

Presented by: UTEP College of Science
Department of Mathematical Sciences

<https://www.utep.edu/science/math/>

The Miner School Bus: Journey into The Heart Of Biology

Biology

Dive into the exciting world of biology through virtual reality goggles with UTEP Biological Sciences! Imagine putting on special goggles that transport you directly into the intricate world of living systems. Our imaging facility creates amazing 3D worlds that allow you to explore biology like an

adventurer on a fantastic journey. Discover how cells work and witness the incredible intersection of technology and biology.

Presented by: UTEP College of Science
Department of Biological Sciences

<https://www.utep.edu/science/biology/>

El Paso AgriLife: Advancing Arid Ecosystems Through Agriculture in Far West Texas

Engineering, Science, Public Health and Nutrition

Our booth will focus on interactive activities related to arid agriculture, water systems, remote sensing, disaster awareness and preparation, and Public Health and Nutrition.

Presented by: Texas A&M University
AgriLife Research and Extension Center at El Paso

<https://elpaso.tamu.edu/>

Science Around Us: Hands-On Experiences

Biology, geology, and ecology

We will have microscopes and samples from various sciences (e.g., geology, ecology, biology) to look at and identify! We will also have various other arts and crafts science-themed activities for children of all ages!

Presented by: UTEP SACNAS Paso del Norte Student Chapter and
Rio Bosque Wetlands Park

https://minetracker.utep.edu/organization/sacnas_paso_del_norte_sc

<https://www.utep.edu/cerm/rio-bosque/rio-bosque-home.html>

Animals And Plants from Around The World!

Biodiversity

The UTEP Biodiversity Collections will exhibit displays of local and international natural history collection specimens. These displays are

paired with short games and activities that educate students on aspects of our local environment.

Presented by: UTEP Biodiversity Collections

<https://www.utep.edu/biodiversity/>

Discover-E: Connect to the World of Engineering

Engineering

This immersive and hands-on experience includes activities developed in partnership with top engineering and computing organizations to learn about various engineering fields. The activities and people you can expect include Marathons' Biofuels, El Paso Electric's Power and Energy, FIRST's More Than Robots, and UTEP's Engineering Ambassadors.

Presented by: UTEP College of Engineering

<https://www.utep.edu/engineering/k12/>

Engineer in a Box

Engineering

Come with your simple or out-of-the-box questions to ask professional engineers and computer scientists. This exhibit literally has an engineer in a box where there is no escape from even your hardest off the wall questions.

Presented by: UTEP College of Engineering

<https://www.utep.edu/engineering/>

Canutillo High School Eagle Technologies

Engineering

VEX Robotics 12'X12" playing field

Presented by: Canutillo High School, Canutillo ISD

<https://www.canutillo-isd.org/>

STEM Innovation Lab Elephant Toothpaste

Chemistry

Learn how a simple chemical reaction produces a large foamy mess similar to toothpaste squirting out of a tube. It's so large only an elephant could use it!

Presented by: Medical Center of the Americas Foundation STEM Innovation Lab

<https://mcamericas.org/what-we-do/foster-a-biomedical-regional-workforce/the-mca-stem-innovation-lab>

STEM Innovation Lab The El Paso Insect Collection

Biology

The "El Paso Insect Collection" features hundreds of preserved specimens gathered from all over our area. These insects were collected over the past 10 years and were found from the peaks of the Franklins to the shores of the Rio Grande. Come, have a look, and see if you can recognize any of these marvelous creatures!

Presented by: Medical Center of the Americas STEM Innovation Lab

<https://mcamericas.org/what-we-do/foster-a-biomedical-regional-workforce/the-mca-stem-innovation-lab>

Searching for Gold

Geology

Learn the science and principles behind gold panning, and how the earth moves and sorts materials. This all-ages, hands-on activity invites you to roll up your sleeves and learn about density, flow, and minerals, plus you can keep what you find.

Presented by: **Joshua Peterson**

Dive into Discovery: Explore Water Quality Together!

Health Sciences

Young scientists will learn how to measure pH levels in water and what the results mean for water quality. The hands-on demonstration will include a brief, age-appropriate overview of lab safety. Grade-level appropriate worksheets and materials related to water quality will be available, along with information regarding our EPA Healthy Schools Project for parents and teachers.

Presented by: UT Health Houston School of Public Health

<https://sph.uth.edu/campuses/el-paso>

Veggie Meter with UTHealth's CCHI

Health Sciences

The Veggie Meter will be used to assess the concentration of carotenoids in the participant's skin. This will provide the participant with a quick and accurate indicator of their fruit and vegetable intake.

Presented by: UT Health Houston School of Public Health Center for Community Health Impact

<https://sph.uth.edu/research/centers/cchi/>

Harmony STEM Adventures: Rockets and Drones

Engineering

Our booth will be designed to captivate curious minds and inspire a love for science, technology, engineering, and mathematics. We will have interactive demonstrations with our rocketry and drone clubs.

Presented by: Harmony Public Schools

<https://www.harmonytx.org/schools/west-texas>

Robotics Adventures

Engineering – Robots

Robotics for all. This activity will also tie in Girl Scout badges.

Presented by: Girl Scouts of the Desert Southwest

<https://www.gsdsww.org/>

Western Tech

Technology

Interactive technology equipment and general information regarding our technology program.

Presented by: Western Tech University

<https://www.westerntech.edu/>

Texas Book Festival

Books

In partnership with the nonprofit BookSpring, the Texas Book Festival will be giving away free books that relate to STEM subjects. Texas Book Festival will use this opportunity to promote its programs and share more about opportunities to get involved.

Presented by: Texas Book Festival and BookSpring

<https://www.texasbookfestival.org/>

Google Developers

Computer Science

The club will be demonstrating some of the projects we have developed in the organization, such as web applications.

Presented by: UTEP Student Group – Google Developers

<https://minetracker.utep.edu/organization/gdscatutep>

SHPE/MAES Student Chapter Zumbobots

Engineering

We will be bringing robots (robots that we have used in Zumbobot competitions) for kids to see and potentially play as well.

Presented by: UTEP Student Group – SHPE/MAES Student Chapter

<https://www.utepmaesshpe.org/>

Predicting the Future

Mathematical Sciences

Presented by: UTEP College of Science

Department of Mathematical Sciences

<https://www.utep.edu/science/math/>

Tech for Thriving: Therapy for All

Health Sciences

For all ages, using technology during speech, occupational, and behavioral therapy to help our patients with autism and developmental delays.

Presented by: Autism & Behavioral Pediatric Clinic

<https://diplomadoautismoyconducta.com>

EPCC Physics and Astronomy

Physics

Physics experiments and demonstrations and a telescope exhibit.

Presented by: El Paso Community College

Department of Physics

<https://www.epcc.edu/Academics/Catalog/program-map?programID=865>

Space Exploration

Astronomy

This booth will be for our space education programs where there will be a space exploration activity as well as information on this year's Space Festival.

Presented by: Insights

<http://www.insightselpaso.org/>

Protecting our Environment

Environmental Science

This booth will be for our environmental education programs where we will have a seed bomb-making activity and will provide information on ways the El Paso community can get involved in our environmental education initiatives.

Presented by: Insights

<http://www.insightselpaso.org/>

Rethink, Reuse, Recycle!

Environmental Sciences

We will have recycled rubber, plastic, Styrofoam, and glass and an activity on how each of them is used and the different levels of the recycling process they are in.

Presented by: City of El Paso Environmental Services

<https://www.elpasotexas.gov/environmental-services/>

Robotica Educativa CEI4.0 A.C.

Robotics, Computer Science, and Mathematics

We will show our Saturday robotics program, mathematics, reading-writing, and computer science regularization services. The projects we work on in agreement with our sponsors: educational robotics, summer camps, and job training.

Presented by: Centros de Estudios Industria

<https://www.facebook.com/4.0CEI/>

<https://www.cei40.org/>

Sphero Quest: Maze Masterminds

Robotics and Computer Science

Learn kid-friendly coding and challenge yourself to navigate through mazes and obstacles!

Presented by: La Nube Children's STEAM Museum

<https://la-nube.org/>

Searching for Fossils

Paleontology

We will integrate a sandbox, where users search for plaster fossils with a playful mediation regarding the topic.

Presented by: La Rodadora

<https://www.larodadora.org/>

Robotics and Automation

Engineering and Robots

We will integrate engineering and technology fields, exploring the most recent advances in robotics and automation.

Presented by: La Rodadora

<https://www.larodadora.org/>

Science for Everyone

Science for All Ages

We will present activities designed to encourage curiosity and learning for all ages, using simple and accessible materials.

Presented by: La Rodadora

<https://www.larodadora.org/>

Life Containers

Physics

How thermodynamics can save lives.

Presented by: Tecnológico de Monterrey Campus Cd. Juárez

<https://tec.mx/en/ciudad-juarez-campus>

Using Legos for Science

Science

We will explore the creative and educational potential of this brand, and how it can be used as a scientific learning and construction tool.

Presented by: La Rodadora

<https://www.larodadora.org/>

Transportation Engineering of the Future

Civil Engineering

Transportation Engineering of the Future – Remote Control car demos

Presented by: UTEP Civil Engineering, Center for Transportation Infrastructure Systems

<https://www.utep.edu/engineering/ctis/>

Scouts in Action: Making Slime

Chemistry

Slime making. This activity will also include the Boy Scout Oath of Law.

Presented by: Yucca Council - Boy Scouts of America

<https://yuccabsa.org>

Giant Brain

Anatomy

Insights' inflatable brain is a part of our Science of Mental Health (SMH) Campaign. The goal of the SMH is to end the stigma around mental illness for our youth, especially those in middle school. Using the inflatable brain as a 'walk-through' model, we created a mental health and neuroscience outreach program that provides an exciting, hands-on learning experience, an introduction to STEAM mental health and neuroscience careers, a new way to reduce stigma around mental health, and to provide critical mental health resources for students and their families. Over the past year, we hosted over 20 events, serving over 3700 EP community members.

Presented by: Insights

<http://www.insightsempaso.org/>

EPISD Start Your Healthcare Journey at Silva Health Magnet

Health Sciences

Patrons will learn from Silva students about: Medical Terminology, Mental Health Stress Relievers, Nursing Skills, and EKG Machines

Presented by: El Paso ISD - Silva Health Magnet School

<https://www.episd.org/silva>

The Math Fair UACJ- Mathematical Adventures

Mathematics

The Feria Matemática UACJ will present playful activities based on mathematical objects such as knots and Hanoi towers. We will explore some abstract concepts of combinatorics and topology in a fun way.

Presented by: Universidad Autónoma de Ciudad Juárez

Department of Mathematics

<https://www.uacj.mx/>

Wonder Fest: 2024

Chemistry and Physics

A mix of quick interactive chemistry and physics demonstrations at this table will amaze participants and viewers of all ages as the demos change throughout the day. What is a whoosh bottle? Vortex Cannon? Fun for all ages.

Presented by: William Swanson

Clint ISD ACE Project Director, and Science Enthusiast

A Zombie in the Lab

Chemistry and Physics

Help the young scientists in the lab to find the cure for our zombie friend. We need little scientists with a spirit of service and big ideas that help us to recover our friend using chemical and physics experiments.

Presented by: Universidad Autónoma de Ciudad Juárez
Department of Physics and Mathematics

<https://www.uacj.mx/IIT/index.html>

Celebration of Our Mountains

Geology

The booth will be stocked with gems and rare stones for observing and handling. Photos albums and maps of hiking locations that CoM sponsors along with expert geologists describing the geology.

Presented by: Celebration of Our Mountains

<https://www.celebmtns.org/>

Mech Robotix Children Exploring the Future

AI and Robots

Three interactive projects will be presented:

- 1.- BullyGuard MIA β2.0 "Fighting Bullying with Artificial Intelligence": Project in which a child interacts with an AI, through a short interview the AI can detect if the child suffers from Bullying and generates a report.
- 2.- Jirafatrónica: Is an animatronic that mimics the appearance and behavior of a real giraffe, children interact with it and learn about animal care and robotics, which reminds us of the Benito giraffe that was taken to Puebla, this is to reduce the use of real giraffes, in unsuitable places.
- 3.- Competition Robotics: Presentation of small robots, which can be programmed and assembled by children, for competitions such as RoboJam among others.

Presented by: Mech Robotix Chihuahua A. C.

<https://www.facebook.com/MechRobotixchih>

<https://www.cei40.org/>

Mobile Robotic Unit UTCJ

Physics

This is a classroom equipped with multiple robotics technologies where children can program and manipulate robots within the unit. (Robotic arms, IQ robots, VEX U robots, VEX 123 robots, and GO robots)

Presented by: Universidad Tecnológica de Ciudad Juárez

<https://www.utcj.edu.mx/>

EPISD Young Women STEAM Academy: The Future is Female

STEAM

Come learn about the Young Women's STEAM Research & Preparatory Academy! We're a 6-12th grade, all-girls school focused on STEAM (Science, Technology, Engineering, ARTS, and Technology) and Service Learning! Do you want your student to be a leader, to be driven, to be talented and creative? Join us for some hands-on learning through the arts, robotics, engineering, computer science, and so much more!

Presented by: El Paso ISD – Young Women's STEAM Research and Preparatory Academy

<https://www.episd.org/steamacademy>

Become a Catapult Creator!

Engineering

At our catapult construction station, you'll be equipped with the tools and know-how to engineer your very own projectile powerhouse. Join

us for a hands-on adventure in engineering and epic launches!

Presented by: El Paso Community College STEM Future Club

<https://www.epcc.edu>

<https://www.epcc.edu/Services/CampusLife/Lists/StudentClubListing/DispForm.aspx?ID=40&Source=https%3A%2F%2Fwww%2Eepcc%2Eedu%2FServices%2FCampusLife%2Fstudent%2Dclubs&ContentTypeId=0x010022F18A1DE119864F8973CAA1EE85C911>

Renewable Electricity Demonstrations by the National Renewable Energy Laboratory

Renewable Energy

A variety of renewable energy-related hands-on activities in Solar Energy, Wind Energy, Energy Grids, and Energy Efficiency. Come and learn how renewable energy works and how it powers everything we do in our daily lives!

Presented by: National Renewable Energy Laboratory

<https://www.nrel.gov/>

The Wonder of Flight

Aviation

Explore aviation with pilots from the War Eagles Air Museum. Dive into the fundamental principles of flight. Learn about the forces at play, including weight, drag, thrust, and lift. Discover how airplanes and helicopters, with their unique rotating wings called rotors, defy gravity to soar through the sky. Join us and discover the science of flight firsthand!

Presented by: War Eagles Air Museum

<https://www.wareaglesairmuseum.com>

Beautiful Minds (Sunday only)

Science, Engineering, Art

Come visit the Beautiful Minds booth at the Science Festival to explore the wonders of polymers, the intricate shapes and characteristics of minerals and rocks, and for an explosion of color! We will have hands-on activities for all ages and abilities, in these three interesting topics for a fun and playful experience. From making your own colorful explosion to using science for your next amazing magic trick. Be ready to try your luck at our spinning wheel where you can win fun surprises, and don't forget to register at our booth for our hourly raffle! In Beautiful Minds MALI we provide innovative experiences and new opportunities to individuals with all abilities and their family members in the areas of science, engineering, and art.

Presented by Beautiful Minds Mali

<https://www.beautifulmindsmali.org/>