



Workshop Samples from Past Events



WORKSHOP

Mission H 2.0: Operation Water Purification

*Calling all chemists and engineers! Join **Dr. Yasmine Daniels** (aka The Classy Chemist), with assistance from the STEM hub – a group of professionals with diverse backgrounds in science, technology, engineering, and math, – and be challenged to take on a critical mission to address the water crisis by designing a chemically-inert device that can regenerate “clean” water. They will incorporate the STEM principles of chromatography and engineering design in building their devices.*



WORKSHOP

Sea Turtle Snacks

Join the National Oceanic and Atmospheric Administration (NOAA) to study how humans impact sea turtles and our oceans! Students will become sea turtle scientists and investigate the stomach contents of a stranded sea turtle to determine if the turtle was consuming the right foods. Student groups will discuss ways we can keep our oceans, and the creatures who live there, healthy.

XTM STEM

Workshop Samples from Past Events



WORKSHOP

The Wonderful World of Satellites!

Join the **Airbus U.S. Space & Defense, Inc. team** to learn all about satellites! Attendees will have a chance to craft their own satellite while learning about what satellites are, what keeps them in space, what we use them for, and the different types of orbits satellites travel. If you think space and technology are cool, come join our session and get some space socks swag!



WORKSHOP

Robotics, Self-Driving Cars, Drones, and AI

Join **Education Empowers** and have fun as you learn about robotics, drones, self-driving cars, and Artificial intelligence (AI). See how AI can transform photos and images, help with your homework essays, and create a cartoon character that looks just like you! From understanding sensors to programming robot missions, this workshop will equip you with fun and experience in programming robots or drones and understanding AI.

XTM STEM

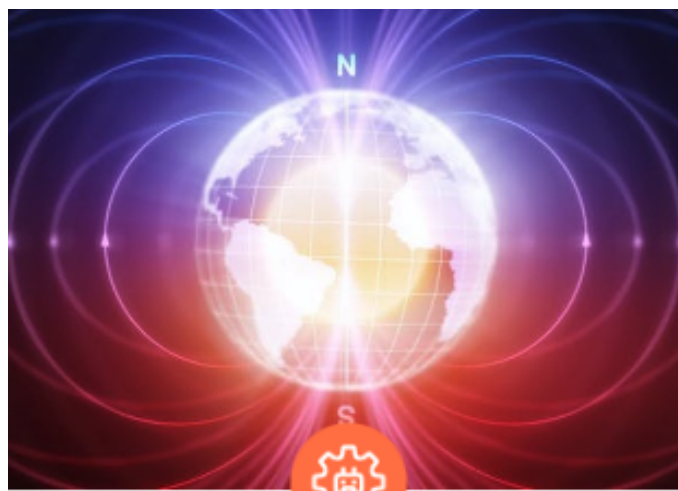
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WORKSHOP

The New World of Tech, Exploring Computers on Wheels and Beyond

*Did you know that new cars today have more computer power than the space shuttle? Join **TechForce** to explore how the world of tech and hands-on careers goes way further than the classic wrench. From circuit boards to volt meters, we'll spend time using hands-on activities to understand the intersection between technicians and technology on the ground and in the air.*



WORKSHOP

Meddling in Matter & Magnetism - Sometimes a Repulsive Adventure!

*We use magnetic fields to hold onto 100,000,000 K deuterium plasmas in the nation's largest tokamak and allow fusion reactions to occur. Join **General Atomics** and build a small electromagnet that uses different core materials to produce different magnetic strengths. Learn about magnetic materials – what works, and what doesn't in making an electromagnet. Find out where in your universe magnetic fields hang out. And see a unique demonstration using magnetic fields to launch normally non-magnetic items.*