

Summary of Engineering Stations

Station Name	Description	NGSSS and Florida Standards Alignment
Bernoulli's Jets	Defy gravity by using Bernoulli's principle. Build a paper plane and see how far it flies!	SC.5.P.13.1
Weather Balloons	Scientists use specialized instruments to withstand the forces of nature. Design a weather balloon that floats midair.	SC.2.P.13.3 SC.4.P.10.4
Circuit Mania	Electric energy can be transformed to light energy through a circuit. Build a circuit that can turn on a light bulb.	SC.5.P.10.4 SC.5.P.11.1
Roller Coaster Engineering	Forces of motion are at work on your favorite roller coasters. Construct a roller coaster with a hill, loop, or tunnel.	SC.3.E.5.4 SC.6.P.11.1
Sail Cars	Vehicles need energy in order to move. Create a vehicle that gets its energy from the wind.	SC.4.P.10.4 SC.2.E.7.4
Chemical Engineering	Chemical engineers develop processes to change chemicals and raw materials into something useful. Find the winning combination of chemicals to make the most explosive reaction!	SC.2.N.1.6 SC.8.P.9.2
Home-Made Music	Design and play an instrument with 3 notes. Combine these notes to create harmony!	SC.K.P.10.1 SC.4.P.10.3
Think for a Robot	Robots need people to tell them what to do! Program a robot to turn a corner.	LAFS.K.SL.1.2
Skyscrapers 101	Skyscraper engineers must work hard to make sure their building stays standing. Construct a building that touches the sky!	SC.2.P.13.3
Get in Gear	Gears connect together to create movement in bicycles, watches, and more. Connect the gears together to create a moving machine.	SC.2.P.13.1 SC.4.P.10.2
Arches	The ancient Romans are famous for the arches they used in their architecture. Build different types of arches and test their strength.	S.3.G.2.5 SS.6.W.3.14
Bridge Engineering	Bridges do more than connect to places – they must also carry people and things! Construct a bridge that supports weight.	SC.2.N.1.6
Earthquake!	Weather events can knock buildings over if they're not built safely. Build a structure that can withstand an earthquake.	SC.K.E.5.1 SC.2.E.7.5 SC.2.P.13.4
Float the Boat	What floats your boat? Create a boat that can float on top of the water and hold weight.	SC.2.P.8.4 SC.2.P.8.1
Rocket Launcher	You don't have to be a rocket scientist to learn the science of rockets! Learn about the forces of weight, thrust, lift, and drag by constructing your own air-powered rocket.	SC.4.P.12.1 SC.6.P.11.1

(Stations are subject to change and based on availability. OSC staff will select 15 stations prior to event.)