



College of Technology Open House and Career Expo*

For High School and Tech School Students

Audience: High School/Tech School Students Grades 10-12, counselors, administrators, and parents

When: Friday, November 1, 2024

Recommended Time: 8:00 AM – Noon

Where: Kansas Technology Center, Pittsburg State University
909 E. Ford Ave. Pittsburg, Kansas, 66762

Registration/FMI: <https://www.pittstate.edu/ktcopenhouse>



Schedule:

- Check-in between 8:00 AM and 10:30 AM
- 20-minute orientation tour to KTC, followed by---
- **Open Schedule of Investigative Activities**, including:
 - Dozens of Demonstrations.** Provided in at least **12 different technology venues**; see or operate equipment; simulators; displays; activities in **nationally-recognized programs**
 - Hands-on opportunities.** Experience emerging technologies & take-home items made
 - Interactions.** Discuss career opportunities, PSU and internship experiences with students and faculty, and alumni company reps
 - Door Prizes.** Prizes/scholarship vouchers available
 - Information Station Highlights.** Careers in STEM; Scholarship Opportunities; Military Options; Student Organizations and Special Events; and Information about Pitt State—two degrees for the price of one, in-state tuition, flat-rate tuition, etc.
- Noon – Event Ends/Remaining Buses Leave

* **Virtual Open House event is also available October 4 – November 8, 2024, if face-to-face visit is not feasible. ALL registered students are provided access to virtual site. Opportunities for SCHOLARSHIPS earned by completing “virtual site” Feedback Sheets.**

Draft Copy -- Planned Open House Demonstrations & Displays – Draft Copy

Updated as of 8/7/2024, More Updates to Follow

Program	Demo/Display	Program	Demo/Display
Environmental Safety (ESM)	<ul style="list-style-type: none"> • Fall Protection and Harness Rigging • HAZMAT Suit • Specialized Safety Devices 	Interior Design	<ul style="list-style-type: none"> • Interior Design Student Projects
Wood Product Manufacturing (WPM)	<ul style="list-style-type: none"> • 5-Axis CNC Router (Gorilla) • CNC Panel Saw • Holzher Edgebander • Innovative CADD Lab • Student Projects Display • Veneering and Display • Moulder Demo (every 30 min.) • Cabinet Construction – Case Clamp & Vertical Machinery • Wood ID Display 	Automotive	<ul style="list-style-type: none"> • Drivability Dynamometer • Baja Vehicle Display • SimSpray Simulator • Drag Race “Christmas Tree” Competition • ADAS Equipment Demo • Electric Vehicle (EV) Lab
Graphic Communications	<ul style="list-style-type: none"> • Print Media • Automated Screen Printing • Photography/Light Painting • 3-D Software -Animation • Laptop Sticker Design • Motion Graphics • Addy Awards/Senior Projects • Studio Headshots • Packaging Prototypes • 3D Animation w/Blender • Mobile Video Demonstration 	Electronics Engineering Tech (EET)	<ul style="list-style-type: none"> • Artificial Intelligence (AI) Deep Learning Robot; • Substation Model • Black & Veatch Scholarships • Solar RC Car • Programmable Gate Array (FPGA) Video Game • Digital Signal Processing Audio Effects • Senior Project Wall Displays
Mechanical Engineering Tech (MET)	<ul style="list-style-type: none"> • 3D Printing Lab -- Additive Manufacturing • Mechanics of Materials Strength of Materials • Demos: Fluid Mechanics • Moon Rover Competition 	Electrical Technology	<ul style="list-style-type: none"> • Two Year Electrical Residential Wiring Lab • Electrical Machinery Lab • Interactive Electrical Activities • Specialty Electrical Trainers
Construction Management/ Construction Engineering Technology	<ul style="list-style-type: none"> • iPlan Table, 3-D Printing Structures: "Sand Pit" (interactive topography); • Surveying Equipment; • Building Information Modeling (BIM); • Virtual Reality/ Augmented Reality • CAT Simulator Activities: Dozer, Loader, and Excavator; • Display: Crane Simulators • Demo: Concrete/Testing • Activity: Bobcat Mini-Excavator (optional) 	Manufacturing Engineering Technology	<ul style="list-style-type: none"> • High Pressure Waterjet Cutting - Foam PSU Cutouts; • Sand Molding Demo –“<i>The Magic of Green Sand Using the Mini Foundry.</i>” • Plasma-Cutting Metal
		Technology & Engineering Education	<ul style="list-style-type: none"> • Tour: Center of Applied STEM Education (CASE) • CNC Router & 3-D Printing • Laser Engraving & Robotics; KidSpark Education Systems • Mechanical Function Display; • Innovation Collaboration Pod; & Student Projects
		Plastics Engineering Tech (PET)	<ul style="list-style-type: none"> • Demo: Injection Molding "Frisbees" and Other Items • Demo: Blown Film Extrusion "Plastic Bags"
		SWE	<ul style="list-style-type: none"> • Society of Women Engineers Display