



# 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, March 7, 2025

**Recommended Time:** 8:00 AM – Noon

**Where:** Crossland 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 CTC (formerly 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**. **Several special, one-time demos are also planned.**
  - 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. Also, learn about college application process.
- Noon – Event Ends/Remaining Buses Leave

\* **Virtual Open House event is also available February 10 – March 14, 2025, 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 11/7/2024, More Updates to Follow

Program	Demo/Display	Program	Demo/Display
<b>Environmental Safety (ESM)</b>	<ul style="list-style-type: none"> <li>● Fall Protection and Harness Rigging</li> <li>● HAZMAT Suit</li> <li>● Specialized Safety Devices</li> </ul>	<b>Interior Design</b>	<ul style="list-style-type: none"> <li>● Interior Design Student Projects</li> </ul>
<b>Wood Product Manufacturing (WPM)</b>	<ul style="list-style-type: none"> <li>● 5-Axis CNC Router (Gorilla)</li> <li>● CNC Panel Saw</li> <li>● Holzher Edgebander</li> <li>● Innovative CADD Lab</li> <li>● Student Projects Display</li> <li>● Veneering and Display</li> <li>● Moulder Demo (every 30 min.)</li> <li>● Cabinet Construction – Case Clamp &amp; Vertical Machinery</li> <li>● Wood ID Display</li> <li>● Shaper Origin--Handheld CNC</li> </ul>	<b>Automotive</b>	<ul style="list-style-type: none"> <li>● Drivability Dynamometer</li> <li>● Baja Vehicle Display (TBD)</li> <li>● SimSpray Simulator</li> <li>● Drag Race “Christmas Tree” Competition</li> <li>● ADAS Equipment Demo</li> <li>● Electric Vehicle (EV) Lab</li> </ul>
<b>Graphic Communications</b>	<ul style="list-style-type: none"> <li>● Print Media</li> <li>● Automated Screen Printing</li> <li>● Photography/Light Painting</li> <li>● 3-D Capture App</li> <li>● Vinyl Wrapping</li> <li>● Motion Graphics</li> <li>● Addy Awards/Senior Projects</li> <li>● Studio Headshots/Soft Skills</li> <li>● Packaging Prototypes</li> </ul>	<b>Electronics Engineering Tech (EET)</b>	<ul style="list-style-type: none"> <li>● Artificial Intelligence (AI) Deep Learning Robot;</li> <li>● Substation Model</li> <li>● NASA Kansas Space Grant, Great Lunar Expedition for Everyone LunaSat</li> <li>● Programmable Gate Array (FPGA) Video Game</li> <li>● Solar RC Car</li> <li>● Senior Project Wall Displays</li> </ul>
<b>Mechanical Engineering Tech (MET)</b>	<ul style="list-style-type: none"> <li>● 3D Printing Lab -- Additive Manufacturing</li> <li>● Mechanics of Materials Strength of Materials</li> <li>● Demos: Fluid Mechanics</li> <li>● Moon Rover Competition</li> </ul>	<b>Electrical Technology</b>	<ul style="list-style-type: none"> <li>● Two Year Electrical Commercial Wiring Lab</li> <li>● Electric Motor Control and Animation Lab</li> </ul>
<b>Construction Management/ Construction Engineering Technology</b>	<ul style="list-style-type: none"> <li>● iPlan Table, 3-D Printing Structures: "Sand Pit" (interactive topography);</li> <li>● Surveying Equipment;</li> <li>● Building Information Modeling (BIM);</li> <li>● Virtual Reality/ Augmented Reality</li> <li>● CAT Simulator Activities: Dozer, Loader, and Excavator;</li> <li>● Display: Crane Simulators</li> <li>● Demo: Concrete Testing (TBD)</li> <li>● Activity: Bobcat Mini-Excavator (optional)</li> </ul>	<b>Manufacturing Engineering Technology</b>	<ul style="list-style-type: none"> <li>● High Pressure Waterjet Cutting - Foam PSU Cutouts;</li> <li>● Sand Molding Demo –“<i>The Magic of Green Sand Using the Mini Foundry.</i>”</li> <li>● Plasma-Cutting Metal</li> </ul>
		<b>Technology &amp; Engineering Education</b>	<ul style="list-style-type: none"> <li>● Tour: Center of Applied STEM Education (CASE)</li> <li>● CNC Router &amp; 3-D Printing</li> <li>● Laser Engraving &amp; Robotics;</li> <li>● Mechanical Function Display;</li> <li>● Innovation Collaboration Pod; &amp; Student Projects</li> </ul>
		<b>Plastics Engineering Tech (PET)</b>	<ul style="list-style-type: none"> <li>● Demo: Injection Molding "Frisbees" and Other Items</li> <li>● Demo: Recycling for Sustainability</li> </ul>
		<b>SWE</b>	<ul style="list-style-type: none"> <li>● Society of Women Engineers Display</li> </ul>

**Plus, several one-time demos in several program areas. List will be posted prior to event.**