



**STLCC**  
**at Meramec**  
11333 Big Bend  
St. Louis, MO 63122

**Important Dates:**

**March 6:**  
**Registration**  
**opens online**  
**at 8:30 a.m.**

**June 28:**  
**Last day**  
**to register**  
**or withdraw**  
**with refund**

**July 29-Aug. 1:**  
**Xploration**  
**Manufacturing**  
**and Trades**  
**9 a.m. - 3:30 p.m.**



[stlcc.edu/go/XPLR](http://stlcc.edu/go/XPLR)

Questions?  
314-984-7777  
cedropbox@stlcc.edu

## PROGRAM HIGHLIGHTS

College for Kids presents **Xploration Manufacturing and Trades**, a unique opportunity for youth, ages 12-16, to explore careers in a variety of trade and manufacturing industries.

Taught by instructors with years of industry experience as well as current industry professionals, students will experience class curriculum/key job components in hands-on, small group cohorts that rotate daily through modules including: aerospace sheet metal and composites, general maintenance mechanics, industrial maintenance tech, welding, HVAC, electronics, and drone operations.

Participants will learn about aerospace fasteners and hands-on installation, carbon fiber composite lay-up activities, blueprint reading, plumbing and pipefitting, welding techniques in a virtual setting, electronics and drone operations with hands-on flying.



### AEROSPACE SHEET METAL AND COMPOSITES

Taught by current or retired Boeing employees with years of aerospace manufacturing experience, students will learn about various types of aerospace fasteners with hands-on installation exercises. An introduction to carbon fiber use in aerospace will be explored with composite lay-up activities.



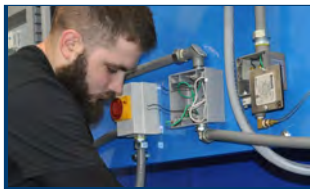
### DRONE OPERATIONS

From photography to mapping for civil engineering, drones are used in a variety of applications. Get a glimpse of drone operations with an opportunity to fly a device.



### ELECTRONICS

Robotics, electronic, biomedical equipment, communications and more all center around electricity. Enhance your knowledge of various devices to gain a better understanding of current technologies.



### GENERAL MAINTENANCE MECHANICS

Designed for those interested in building maintenance and meeting industry standards, topics will include blueprint reading, plumbing and pipefitting, and more. Basic hands-on electricity projects will be covered.



### HVAC

Heating, Ventilation and Air Conditioning focuses on installation, troubleshooting and operation of systems. Find out how HVAC systems work, wire a thermostat and view a demonstration on brazing.



### INDUSTRIAL MAINTENANCE TECHNICIAN

Industrial maintenance technicians repair and maintain commercial or industrial machinery in buildings and in a plant or factory setting to make sure the machine functions properly. Students will get hands-on experiences in robotics and pneumatic systems.



### WELDING

Careers in welding are on the rise! Students will be using Augmented Reality Welders to learn welding concepts and techniques in a virtual setting, without the arcs and sparks.