

## Diesel Technology — ECTC

This pathway provides students an opportunity to work with and repair large diesel engines used in trucking, agriculture and locomotive industries. Students will attend ECTC two days a week and attend regular high school in a blended learning environment. Concurrent enrollment in the Riverview Opportunity Center is recommended for this program. This agreement is being finalized with ECTC and more information will follow soon for interested students.



To apply for any of these or other programs at the Bullitt County Area Technology Center please visit our website at <https://www.bullittschools.org/25/home>

You may also ask your counselor for the application and then follow all directions for consideration. Applications are due by March 8th, 2019.

Dual credit pathways require admission to the community college. Call the Bullitt County ATC or email for more information on being admitted to these areas.

### Bullitt County ATC

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## Bullitt County ATC / JCTC Dual Credit Pathways

- **Aviation Maintenance**
- **Computerized Machining & Manufacturing**
- **Diesel Technology (ECTC)**



*Bullitt County Area Technology Center*

## Dual Credit Pathways

The Bullitt County Area Technology Center in partnership with JCTC and ECTC offers Dual Credit pathways in Aviation Maintenance, Computerized Machining and Manufacturing, and Diesel Technology. Students attend the community college one or two days a week depending on the program to get hands-on experience within these fields. On days that students are not on campus they remain at their high school for online coursework and to fill their remaining graduation requirements. The work-ready and dual-credit scholarships provide these unique opportunities to students at little to no cost. Students must be in 11th or 12th grade for these opportunities. Many of our regular programs serve as preliminary coursework towards these programs.

Students must be admitted to JCTC or ECTC to be eligible for these programs.

## Aviation Maintenance — JCTC

Aircraft maintenance technicians are trained to adjust aircraft engines and pneumatic systems, remove and install aircraft components and diagnose problems. Some of their duties include checking electrical systems, repairing pilot static systems and performing regular preventive inspections.



Technicians examine aircraft fuselage (the aircraft's main body) and landing gear for cracks or leakage. They repair or replace defective aircraft parts and check completed work to ensure that it meets quality standards. Mechanics and technicians work in hangars, in repair stations, or on airfields. They must meet strict deadlines while following safety standards. Most mechanics and technicians work near major airports. Mechanics may work outside on the airfield, or in climate-controlled shops and hangars. Civilian mechanics employed by the U.S. Armed Forces work on military installations.

### Certifications

- FAA Airframe & Power-plant General Written Exam

### Courses

- ATE 102 Introduction to Aviation Maintenance I
- ATE 104 Introduction to Aviation Maintenance II
- ATE 106 Introduction to Aviation Maintenance III
- ATE 108 Introduction to Aviation Maintenance IV
- ATE 100 Aviation Math

Median annual salary for Aviation Mechanics was \$60,270 per year in 2017.

## Computerized Machining & Manufacturing — JCTC

Machinists and tool die makers set up and operate a variety of computer-controlled and mechanically controlled machine tools to produce precision metal parts, instruments, and tools. Machinists typically do the following:

- Read blueprints, sketches, or computer-aided design (CAD) and computer-aided manufacturing (CAM) files
- Set up, operate, and disassemble manual, automatic, and computer numerically controlled (CNC) machine tools
- Turn, mill, drill, shape, and grind machine parts to specifications
- Use CAD software to design parts and G-code for CNC machines.



### Certifications

- Computer Numerical Control — (CNC) operator
- Autodesk Inventor Certified User & OSHA10

### Courses

- CMM 110 Fundamentals of Machine Tools A
- CMM 112 Fundamentals of Machine Tools B
- CMM 130 Manual Programming
- BRX 112 Blueprint Reading for Machinists
- CAD 100 Introduction to Computer Aided