

# Engineering and Industrial Technology Pathway

This pathway is designed to cultivate students' interests, awareness and applications to careers related to technologies necessary to design, develop, install and maintain physical systems

## Pathway Focus Areas

- \*Automotive and Transportation (TDL)
- \*Building Trade Maintenance (BT)
- \*Computer Aided Design (CAD)
- \*Computer and Information Networking (ET)
- \*Construction Trades (CO)
- \*Electronics and Computer Engineering (ET)
- \*Manufacturing Technologies (M)

### Are you interested in...

Buildings and construction  
Computer technology  
Design and architecture  
Engineering  
Fitness and sports  
How things work  
Math and Science classes  
Precision work  
Production management  
Tools, equipment and materials  
Woodworking

### Can you...

Apply science and math to real world  
Organize reports and people  
Read and understand directions  
See a task through to completion  
Solve problems of a complex nature  
Understand directives and read maps  
Use a computer

### Do you enjoy...

Building with your hands  
Design/working with project, models, prototypes  
Operating tools and equipment  
Paying close attention to details  
Working with your hands  
Working in a lab setting  
Working on a team  
Travel

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

## Sample Careers

### Apprenticeships and Entry Level (OJT)

Brick Mason (CO)  
Carpenter (CO)  
Diesel Mechanic (TDL)  
Electrician (CO)  
HVAC (CO)  
Machinist (CO)  
Plumber (CO)  
Carpet Installer (CO)  
Drywall Worker (CO)  
Freight Handler (TDL)  
Machine Operator (M)  
Roofer (CO)  
Warehouse Worker (TDL)

### Technical/Skilled (1-3 yrs)

Air Traffic Controller (TDL)  
Auto Mechanic & Repair (TDL)  
Bus & Truck Driver (TDL)  
CAD/CAM Technician (M,ET)  
Civil Engineering Technician (ET)  
Diesel Mechanic (TDL)  
Electric Technician (M)  
Grader and Dozer Operator (CO)  
Laser Technician (M, ET)  
Metals Engineering Technician (M)  
Motorcycle Mechanic (TDL)  
Robotics Technician (ET)  
Taxi Driver (TDL)

### Professional (4 + yrs)

Aeronautical Engineer (ET, TDL)  
Aerospace Engineer (ET, TDL)  
Airline Pilot (ET, TDL)  
Architect (ET, CO)  
Astronaut (ET)  
Chemical Engineer (ET)  
Civil Engineer (ET, CO)  
Computer Network Engineer (ET)  
Industrial Engineer (ET, M)  
Mechanical Engineer (ET, M)  
NASA Scientist (ET)  
Navigator (TDL)  
Nuclear Engineer (ET)  
Petroleum Engineer (ET)  
Transportation Engineer (ET, TDL)

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Check out Occupational Outlook Handbook – [www.bls.gov/OCO/](http://www.bls.gov/OCO/) or check your Choices profile

**Holland Codes for Eng. & Ind. Tech.**

**Realistic**

**Conventional**