

Engineering, Manufacturing & Industrial Technology Pathway



Is this the pathway for you?



Do you enjoy?

Working with your hands

Designing and working on projects and models

Working in a lab or shop setting

Working as a team

Operating tools and machines

Paying close attention to detail

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What does an Engineer do?

Plans and designs:

Civil – Roads, airports, bridges, tunnels, sewage and water system, etc.

Industrial – The most efficient way for their company to make their product

Mechanical – Power producing machines (engines and equipment)

Aerospace – Aircraft, missiles and spacecraft

Plastics – Different types of plastics as well as plastic forming equipment



Engineering Career Video



Mechanical Engineering



Welders/Metal Working

Auto Body Repair – reshapes or replaces parts that were ruined in auto accidents

Structural Welder – Joins the structural members of buildings, power plants and bridges.

Assembly Line Welders – Operates the welders or welding robots within a factory setting

Underwater Welders – Repairs or helps to build bridges and oil rigs

Sheet Metal Worker – Fabricates, install, and repair products using sheet metal.



Welders/Metal Career Video



Sheet Metal Worker



Construction/Woodworking



Architectural Draftsperson – Draws all the plans for the building of a structure

Mason – Builds brick, block or stone walls

Cabinetmaker – Builds cabinets and furniture.

Carpenter – Completes the rough framing of structures.

Electrician – Wires up buildings.

Plumber – Responsible for all supply and waste water of a building



Construction/Woodworking Career Video



Woodworking Machine Setter