

## Occupation Card A



# Dentist

A dentist is a type of doctor who specializes in teeth. Their goal is to make people's teeth function properly and prevent the spread of oral diseases.

A typical dentist will go to college for **8 years**.

Skills:

- Deep-clean teeth
- Fill cavities (tooth decay)
- Pull rotten teeth
- Educate people on oral hygiene (proper teeth and mouth care)

## Occupation Card B



# Civil Engineer

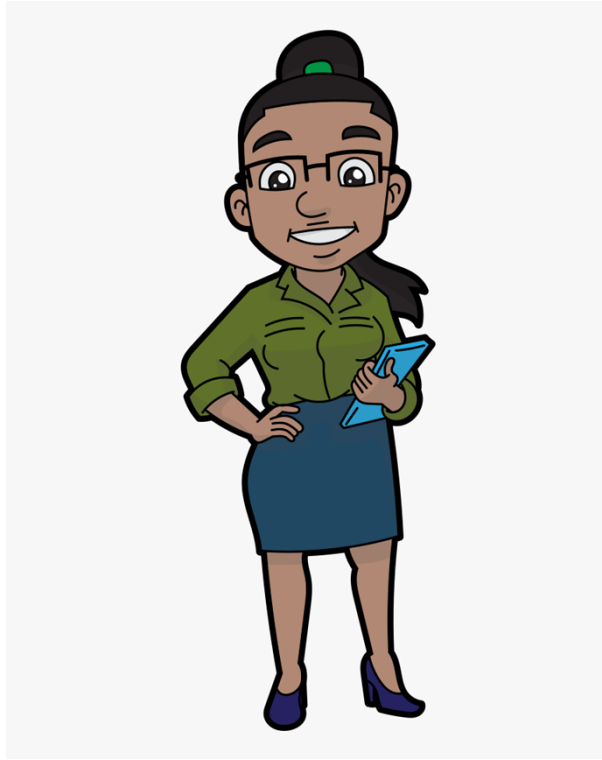
A civil engineer is a type of engineer who specializes in designing structures and city systems. Their goal is to help cities function by creating things such as buildings, roads, and bridges.

A typical civil engineer will go to college for **4-6 years**.

### Skills:

- Design high-rise buildings
- Design bridges
- City planning (decide what part of the city to build houses, businesses, water treatment plant, hospital, etc.)
- Create a water treatment plant (access to clean water)

## Occupation Card C



# Industrial Engineer

An industrial engineer is a type of engineer who specializes in making processes run efficiently. Their goal is to improve quality, speed, and resourcefulness in any type of project.

A typical industrial engineer will go to college for **4 years**.

### Skills:

- Oversee a supply-chain to obtain new materials
- Design a manufacturing plant that can produce new items from raw materials
- Run the *operations* of a project (operations refers to the schedule, finances, and communications of any type of project)
- Organize complex problems and processes to make them easy-to-use

## Occupation Card D



# Plant Biologist

A plant biologist is a type of scientist who specializes in plants. Their goal is to understand how plants work in order to help ecosystems thrive, prevent diseases, and provide plentiful food sources. This field of study is also known as *botany*.

A typical plant biologist will go to college for **6-8 years**.

### Skills:

- Document and conduct studies on new species of plants
- Cross-breed plants to create new species
- Teach college courses in biology
- Identify plants that can be used as human food

## Occupation Card E



# Environmental Engineer

An environmental engineer is a type of engineer who specializes in the health of the world we live in. Their goal is to create new ways for people and businesses to have positive impacts on the environment.

A typical environmental engineer will go to college for **4 years**.

### Skills:

- Design new ways to harvest renewable energy
- Research ways to recycle and reuse materials
- Improve existing inventions by making them positive contributors to the environment
- Develop solutions to reverse the damage done by environmental disasters such as oil spills and nuclear meltdowns

## Occupation Card F



# Geologist

A geologist is a type of scientist who studies the rocks and other materials that planets are made of. Their goal is to understand how a planet was formed, how its material behaves, and what will happen to it in the future. Most geologists study Earth but some study the materials of other planets.

A typical geologist will go to college for **6-8 years**.

### Skills:

- Research and explain how a planet works by studying the rocks, soils, gases, liquids, and many other materials that make up the planet
- Predict the times, places, and future damage of natural disasters such as earthquakes, landslides, floods, and volcano eruptions
- Develop uses for newly discovered rocks and minerals
- Teach college courses in geology