

Why Design and Engineering are vital to life on Earth



By Jamie Graham 1.b

Engineers

There are 6 different types of engineers, they are :

Mechanical

Chemical

Civil

Electrical

Management

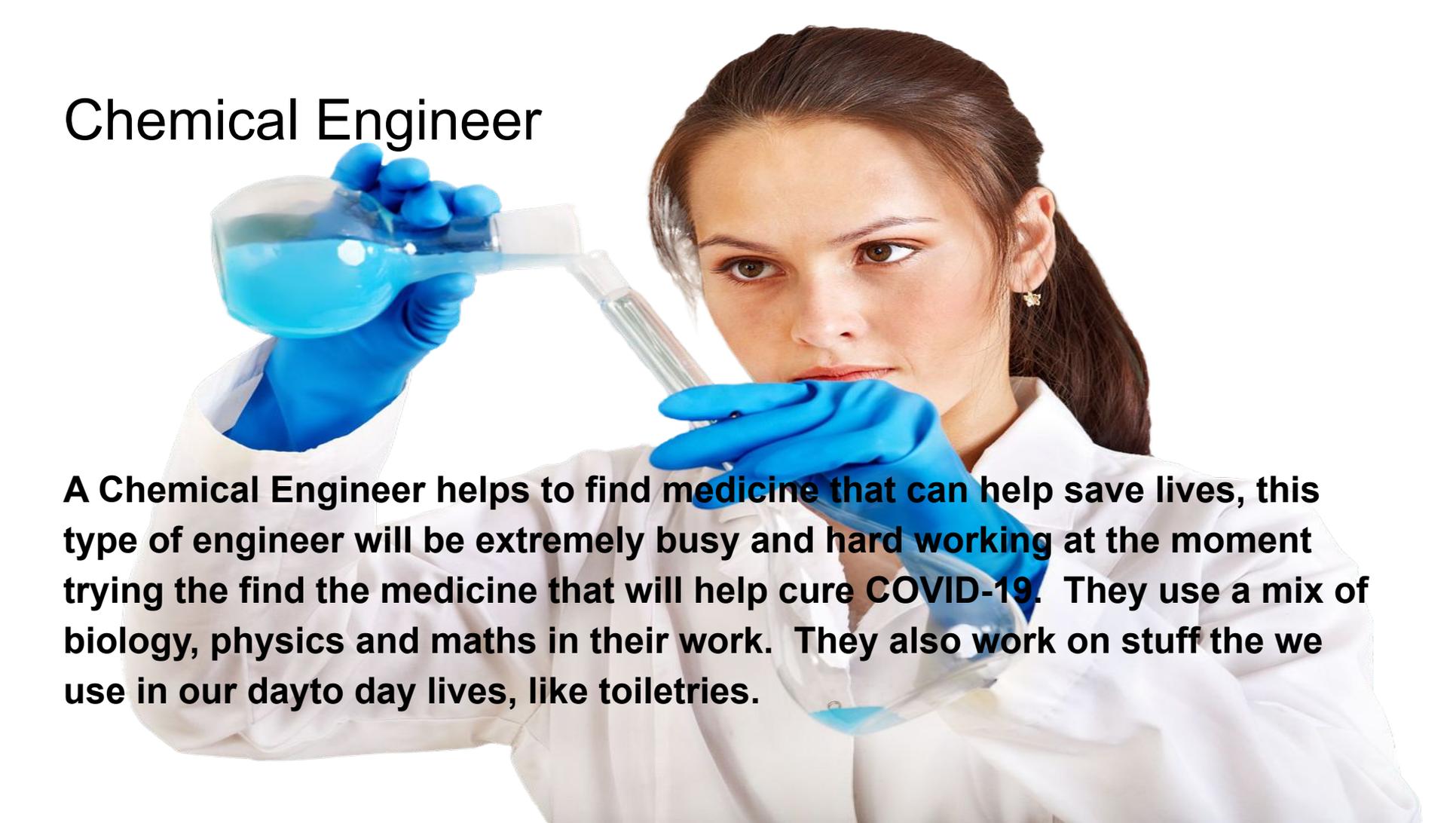
Geotechnical



Mechanical Engineer

They design power producing machines, like generators, internal combustion engines, turbines, refrigeration, air-conditioning, elevators and lots more. These things are needed for so many different purposes in the world and a lot used to produce energy.

Chemical Engineer

A female chemical engineer with dark hair tied back, wearing a white lab coat and blue nitrile gloves. She is focused on her work, pouring a bright blue liquid from a round-bottom flask into a test tube. The background is plain white.

A Chemical Engineer helps to find medicine that can help save lives, this type of engineer will be extremely busy and hard working at the moment trying to find the medicine that will help cure COVID-19. They use a mix of biology, physics and maths in their work. They also work on stuff that we use in our day-to-day lives, like toiletries.

Civil Engineer

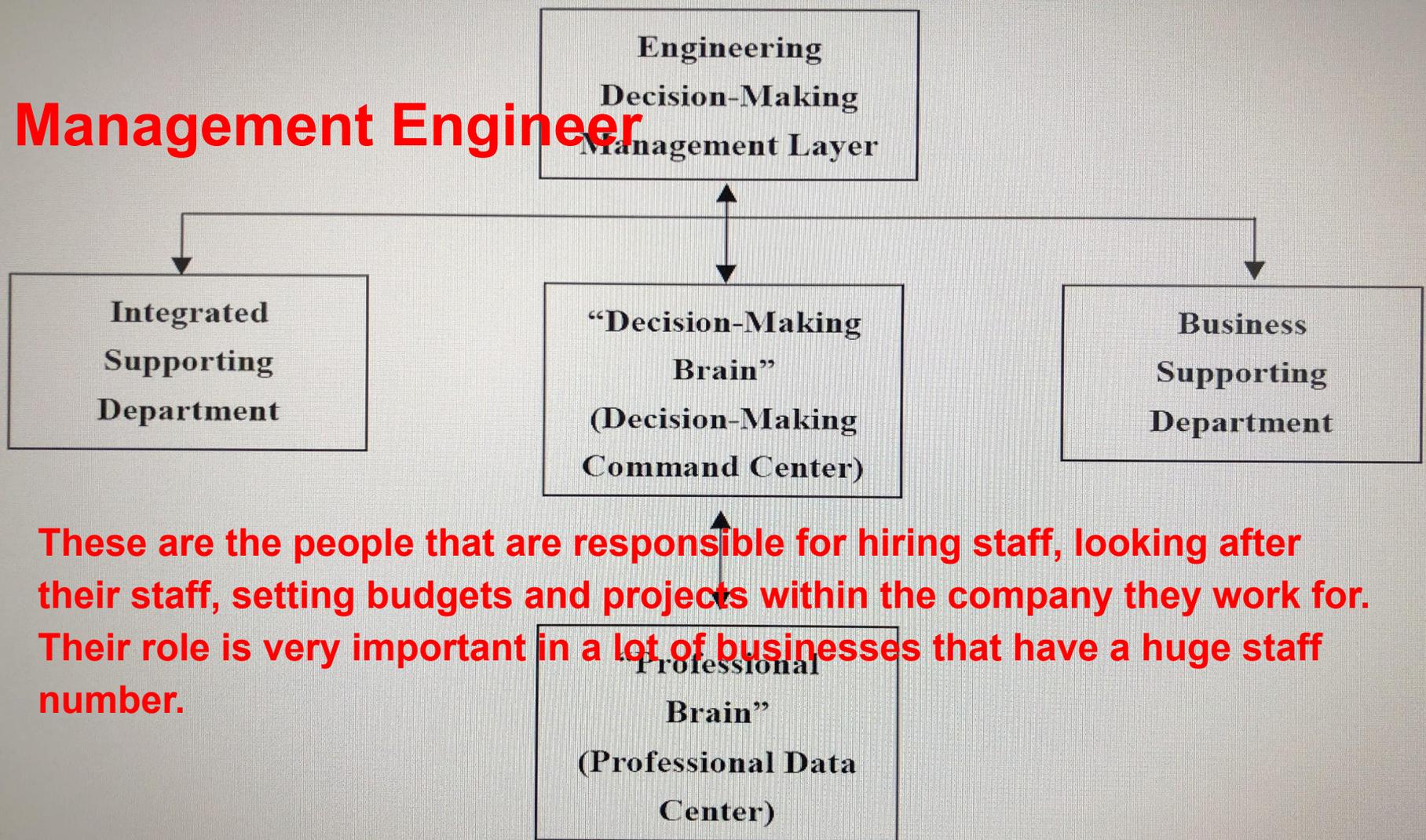
These Engineers help to design tunnels, bridges, airports, roads, water supply & sewage treatments and dam. These engineers have a very important job, without these things we would not be able to use any mode of transport that we do every day, our daily lives would be very different, although it would cut down on pollution.



Electrical Engineer

An electrical engineer helps to design and develop new electric systems, these include generators, motors, electrical devices, aeroplane and a lot of other jobs. They also help manufacture these to make sure that they are done correctly. Without these people we would not have the devices that we have today.

Management Engineer



These are the people that are responsible for hiring staff, looking after their staff, setting budgets and projects within the company they work for. Their role is very important in a lot of businesses that have a huge staff number.

Geotechnical Engineer

A photograph of a dam or levee structure. In the foreground, there is a body of water with large concrete blocks along the edge. A concrete gate structure is visible in the middle ground, partially submerged. To the right, a concrete structure with a red roof sits on a grassy embankment. The background shows a flat landscape under a clear sky with distant mountains.

They study the different effects that soils, rocks and the changes that happen during different surroundings. They help try to prevent volcanoes, mudslides, avalanches, earthquakes and many other disasters than can happen. They study the surroundings using soil, rocks, water.

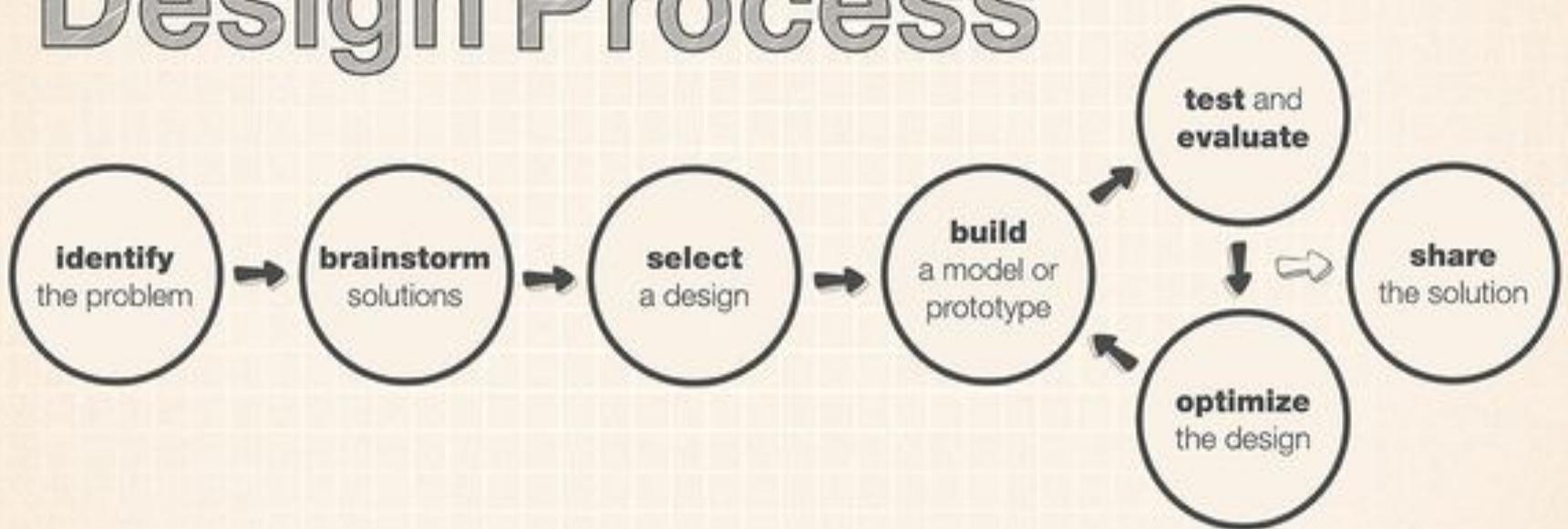
A Designer

DESIGNER

When you hear people say 'I am a designer' you think that they design clothes. But, these people work alongside the engineers. They would all engineers prepare the drawings for an new model of engine, electrical, new bridges, tunnels, dams, buildings and more.

Engineering & Design

Engineering Design Process



From my google slides presentation I have found that both of these Matters are very important to each other and one cannot work without the other.

Teamwork makes the dream work !!



LEARNING

KNOWLEDGE

EXPERIENCE

SKILLS

ABILITY

COMPETENCE

TRAINING

GROWTH