

STEM

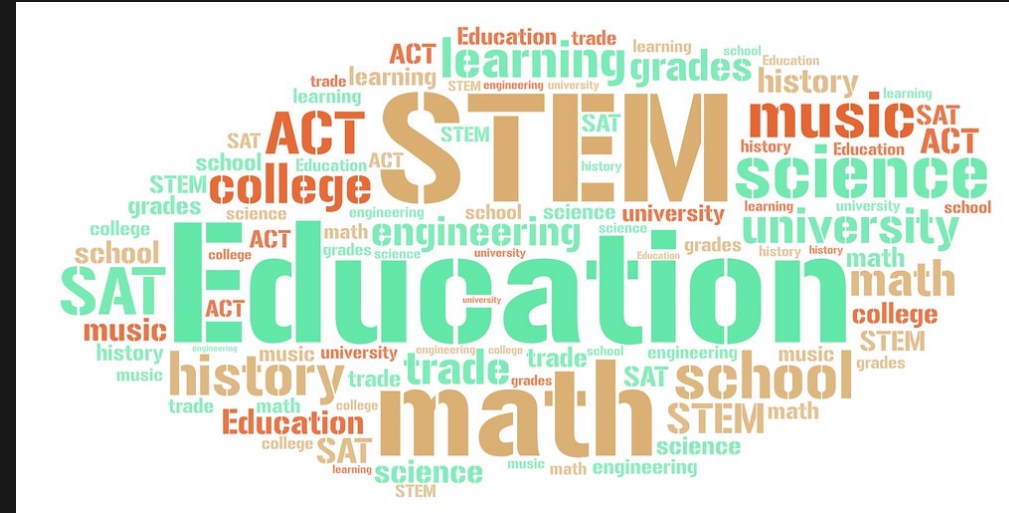
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WHAT IS S.T.E.M.?

S.T.E.M. stands for science, technology, engineering and mathematics.

S.T.E.M. subjects and jobs are for both genders.

Our goal is to encourage everyone to get interested in science, technology, engineering and mathematics, regardless of whether they are a boy or a girl!



BENEFITS OF S.T.E.M.

Improves creativity

Empowers critical thinking skills

Boosts curiosity

Increases team collaboration

ARCHITECT

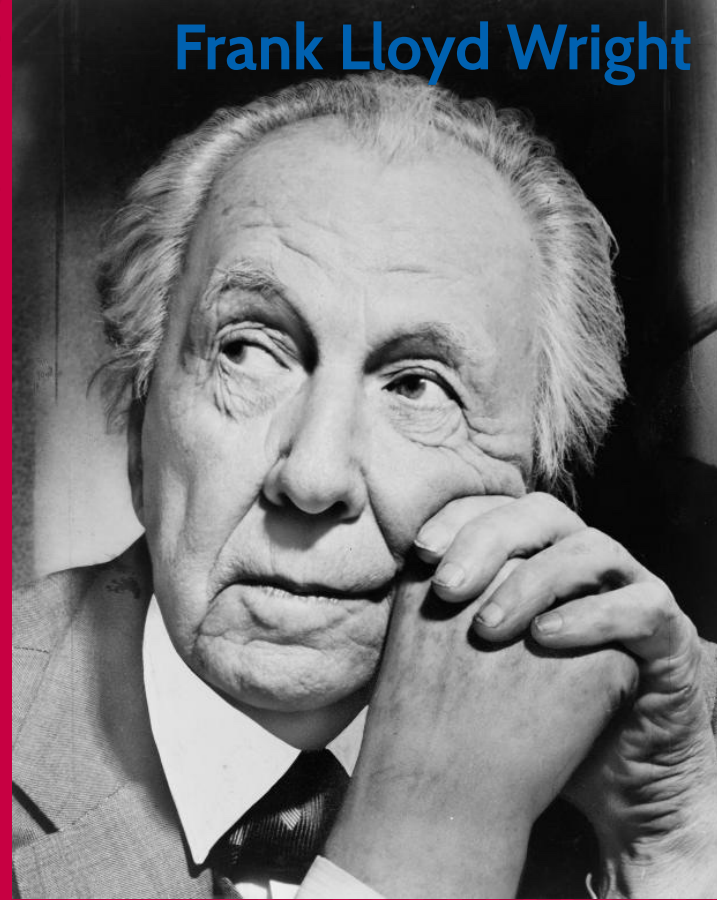
Architecture was once an Olympic sport.

Frank Lloyd Wright is considered by many to have been world's greatest architect.

The first thing an architect does is not to draw, but instead it is to figure out the location for the building.

In Ireland the average amount of money an architect makes is €55,037 a year.

Imhotep was the first architect that historians have identified.



Zoologist



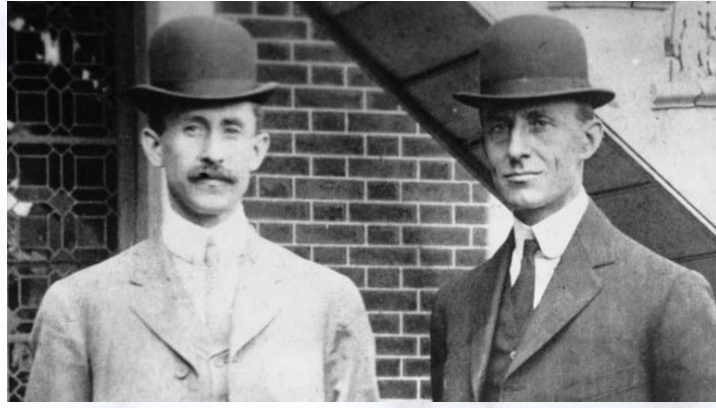
Zoologists and wildlife biologists study animals and other wildlife, and how they interact with their ecosystems.

They study the physical characteristics of animals, animal behaviours, and the impacts humans have on wildlife and natural habitats.

They study many things like animal species, population, interaction, their distribution etc.

Zoology is divided into various different fields like mammalogy, ornithology, herpetology, malacology, etc.

If a zoologist specialises in extinct animals then he/she is known as paleozoologist.



What is an Engineer?

An engineer uses science to solve different technical problems.

There are many different types of engineers, for example, a construction engineer designs buildings and roads.

Some famous engineers are the Wright brothers, who designed and flew the first ever airplane, and Thomas Edison, who designed the light bulb.

Nikola Tesla, George Stephenson, Isambard Kingdom Brunel, Leandro da Vinci and James Watt are other famous engineers.

Nikola Tesla invented the Tesla coil and the remote control.



Marine Biologist



Marine biologists are somewhat similar to zoologist and wildlife biologists, except that they study life in the sea.

They help the seafood industry provide consumers with sustainable food choices.

They work underwater as much as they work in labs.

Much of their work focuses on reasearch.

Marine biologists get to travel very often too!

FACTS ABOUT ROBOTICISTS

Robotic engineers love maths and science.

Some robotics engineers work on creating robots.

Robotics engineers might work in medical or scientific industries.

Robotics engineers can work in government, military or private industries.

They typically work in their office or research settings, and earn around €100,000 a year!



Biologists

A biologist is a professional who has specialised knowledge in the field of biology.

Biology is a natural science with a broad scope, but it has several unifying themes that tie it together as a single coherent field.

Biologists study humans, plants, animals and the environments in which they live. They try to understand the underlying mechanisms that govern the functioning of biological systems and the environment.

They may conduct their studies in human medical research, plant research, animal research, environmental system research at the cellular level or any where in between!

Biologists generally love what they do.



Katherine Johnson

Katherine Johnson was born on August 26 1918 in White Sulphur Springs, West Virginia.

She had two brothers and one sister.

She had 3 kids called Katherine, Joylette and Constance.

She worked in STEM for over 30 years as a mathematician for NASA. She was one of the first African-American women to work as a NASA scientist.

In 2015 Katherine was awarded the Presidential Medal of Freedom by President Obama.

In 2016 Katherine was presented with the Silver Snoopy award by NASA astronaut Leland D. Melvin as well as NASA Group Achievement Award.

In 2019 Katherine was awarded the Congressional Gold Medal.

Katherine Johnson died on February the 24 2020, aged 101.



FIDELMA FITZPATRICK



Fidelma is a medical doctor and a professor of clinical microbiology in the Royal College of Surgeons Ireland.

She got interesting in S.T.E.M. when she was 7/8 years old. She has 2 younger sisters. Her father worked as an accountant and her mother worked in an office.

She studied chemistry and physics in school and went to Trinity College. She spent four years studying science, but then she decided she wanted to be a doctor.

She has been working in S.T.E.M. for 30 years. She also has a female friend who works as a physicist.

What Fidelma loves most about her job is making people better and teaching.

Although male and female doctors get paid the same, she finds that male doctors can be shown more respect and be assumed to be in charge. This is changing though as more girls are becoming doctors.



Thanks for
reading!