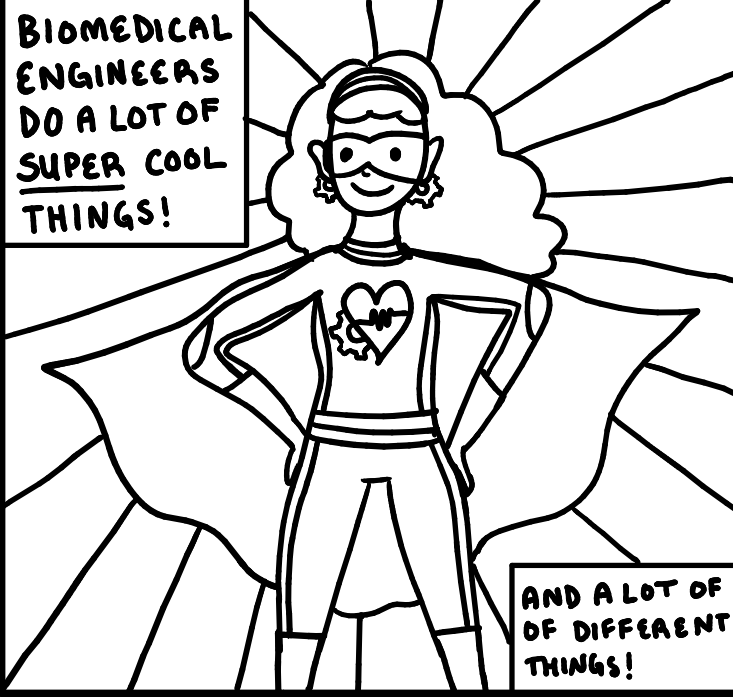


WHAT IS BIOMEDICAL ENGINEERING?

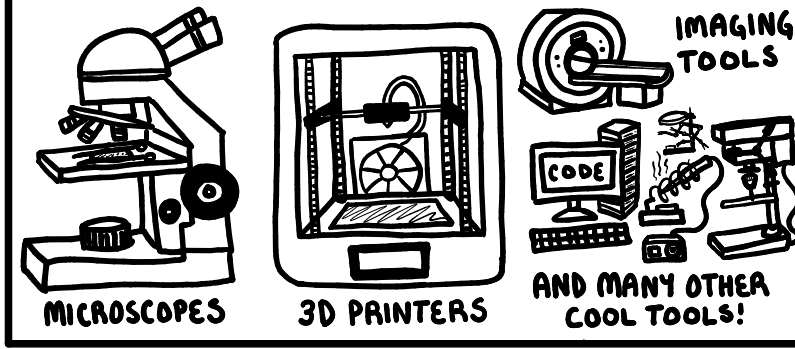
BIOMEDICAL ENGINEERS DO A LOT OF SUPER COOL THINGS!



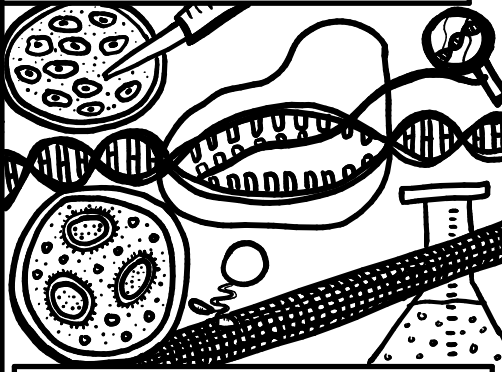
AND A LOT OF OF DIFFERENT THINGS!

BIOMEDICAL ENGINEERS USE ENGINEERING TO SOLVE MEDICAL PROBLEMS

BIOMEDICAL ENGINEERS USE LOTS OF COOL TOOLS!

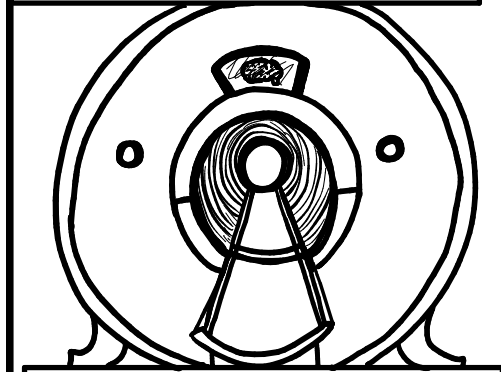


SOME BIOMEDICAL ENGINEERS



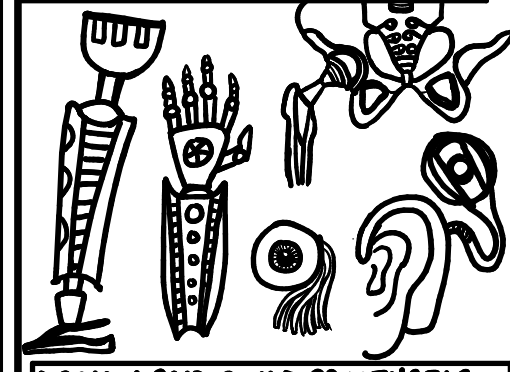
USE CELLS, PROTEINS, AND DNA TO MAKE BIOLOGY-BASED INVENTIONS AND THERAPIES TO HELP PEOPLE.

SOME BIOMEDICAL ENGINEERS



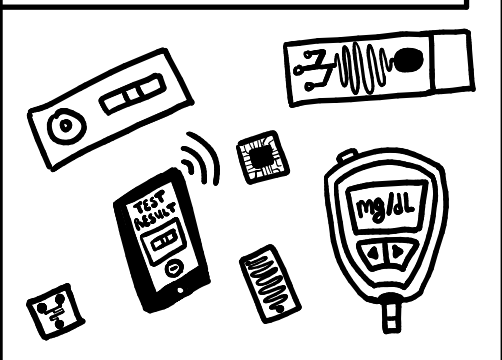
WORK ON MEDICAL IMAGING DEVICES - LIKE X-RAY, MRI, PET, AND ULTRASOUND TECHNOLOGIES.

SOME BIOMEDICAL ENGINEERS



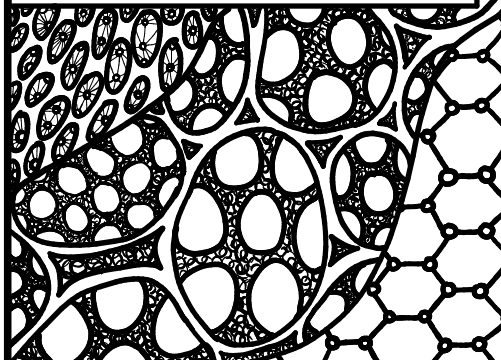
DESIGN AND BUILD PROSTHETIC LIMBS AND IMPLANTS TO HELP REPLACE MISSING BODY PARTS. THIS CAN INCLUDE BIONICS!

SOME BIOMEDICAL ENGINEERS



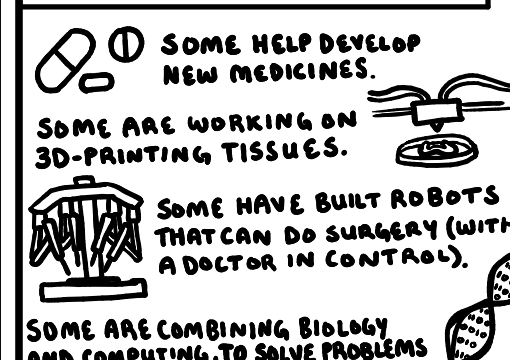
CREATE DIAGNOSTIC DEVICES AND TESTS, TO MEASURE AMOUNTS OF THINGS IN THE BODY, OR TO TEST FOR PARTICULAR DISEASES OR CONDITIONS.

SOME BIOMEDICAL ENGINEERS

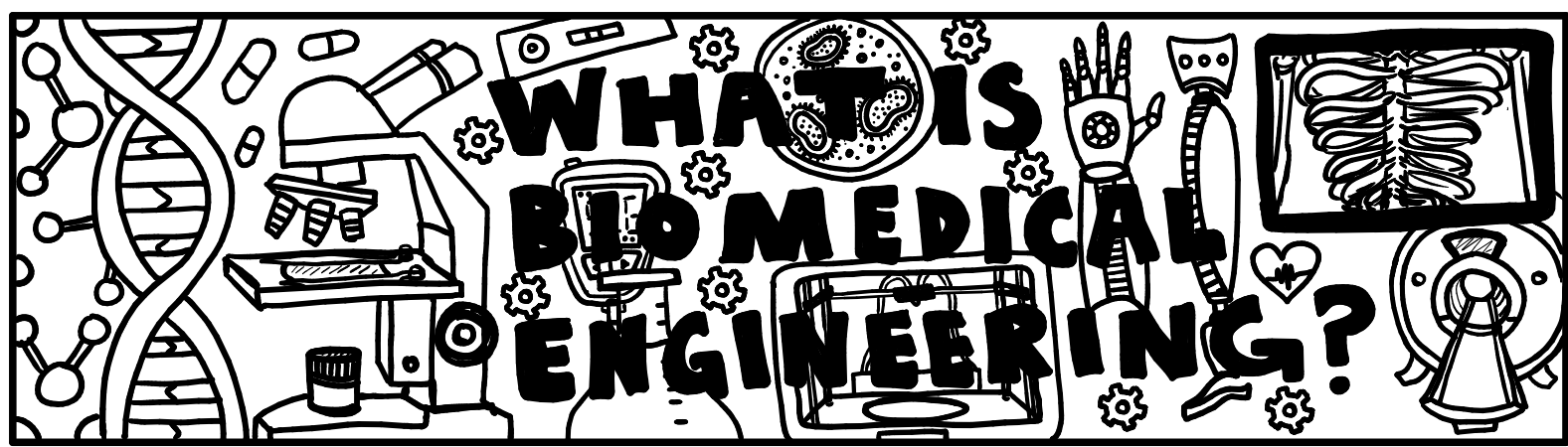


DESIGN AND STUDY BIOMATERIALS (MATERIALS USED IN MEDICAL DEVICES) AND WAYS TO APPLY THEM.

MANY BIOMEDICAL ENGINEERS



DO LOTS OF OTHER THINGS, TOO!



WHAT IS YOUR FAVOURITE THING THAT BIOMEDICAL ENGINEERS DO? DRAW A PICTURE OF IT BELOW!



IF I WAS A BIOMEDICAL ENGINEER, I WOULD SPECIALISE IN THIS!

FILL IN THE BLANKS

Biomedical Engineers use _____ to solve _____ problems.

Biomedical engineers do a lot of super cool things, and a lot of different things. Some biomedical engineers use _____ to make biology-based inventions and therapies for people. Some biomedical engineers work on _____ devices, such as X-ray, MRI, PET, and ultrasound technologies. Some biomedical engineers design and build _____ to replace missing body parts; this can include _____. Some biomedical engineers create _____ devices and tests, to measure amounts of things in the body or to test for particular diseases or conditions. Some biomedical engineers design and study _____ (materials used in medical devices) and ways to apply them. Many biomedical engineers do lots of other things too! Some biomedical engineers develop new medicines, work on 3D printing tissues, build robots that can do surgery (with a doctor in control), and even combine biology and computing to solve problems in medicine and beyond.

Some of the tools that biomedical engineers use include _____, _____, _____, and many other cool tools!

- | | | |
|-----------------|-------------------------------|------------------|
| medical imaging | prosthetic limbs and implants | engineering |
| imaging tools | medical | 3D printers |
| microscopes | cells, proteins, and DNA | bionics |
| | | diagnostic |
| | | WORD BANK |