

THE FUTURE OF ENGINEERING RESEARCH TASK

As a sector, engineering will always be in demand. While some roles will disappear over time, new sectors will evolve and bring new, exciting job roles with them. It is also apparent that there is growing opportunities for engineering skills across all industries, not just those traditional engineering pathways.

With the introduction of new technologies, challenges, and human and environmental demands, several existing and new engineering specialisms have been highlighted as key growth areas for future employment.

TASK1

Below are 10 engineer roles that have been highlighted as growing opportunity areas.

Using the internet, research each job role and record 3 interesting facts about the role into the text boxes provided.

Mechatronic Engineer £40,589 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Environmental Engineer £32,063 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Wind Turbine Technician £31,474 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Solar Energy Engineer £24,352 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Aerospace Engineer £36,572 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Biomedical Engineer £35,373 (Average wage UK Aug 2023)

Fact 1

Fact 2

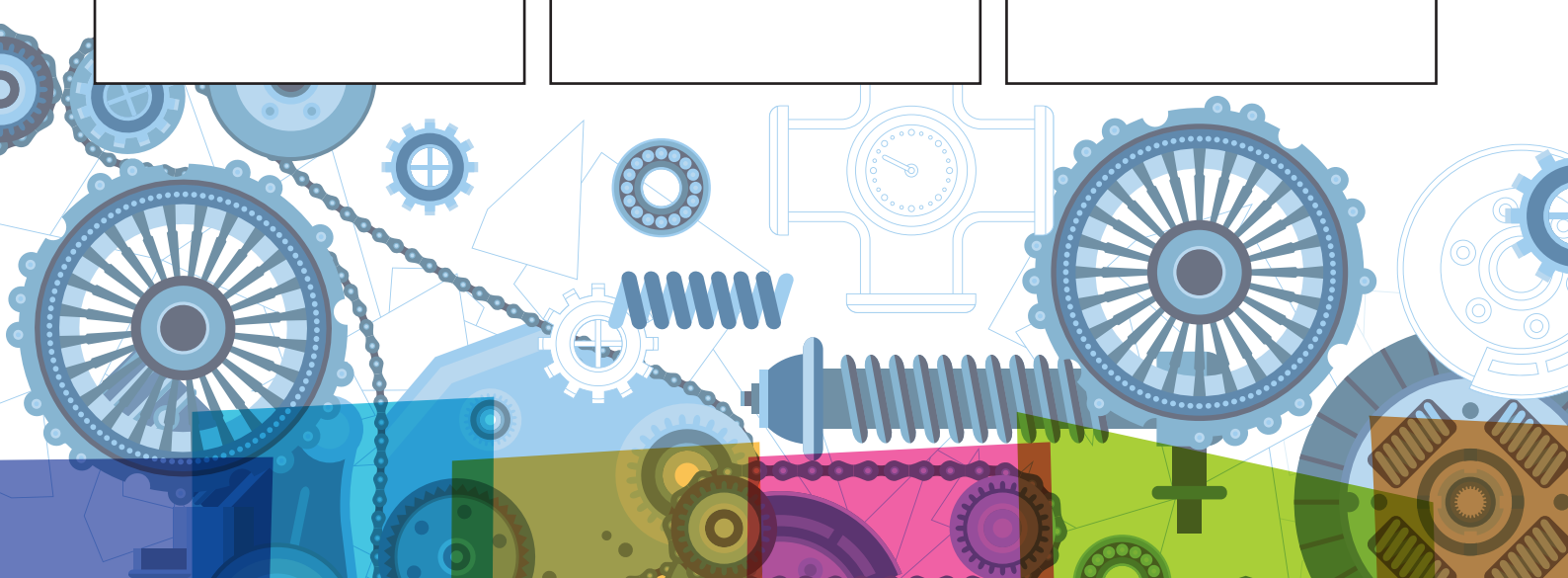
Fact 3

Software Engineer £49,020 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3



Cyber Security Engineer £49,856 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Machine Learning Engineer £55,725 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

Civil Engineer £37,359 (Average wage UK Aug 2023)

Fact 1

Fact 2

Fact 3

TASK2

Now, pick one of the job roles that you would like to research further.

Create a 3-slide presentation on PowerPoint or you can use paper, to showcase the role in further detail.

Information to include:

- > What key duties will you be completing in this role?
- > What products or services might you be developing?
- > What skills are required?
- > What could the workplace look like?
- > What education or training pathways could you take?
- > What could your working hours look like?
- > What potential wage could you earn?
- > What interests you the most about this role?
- > What local or national organisations could you work for?

TASK3

Optional task

Students to present their slides to the class. 5-minute presentations with the opportunity for audience questions.