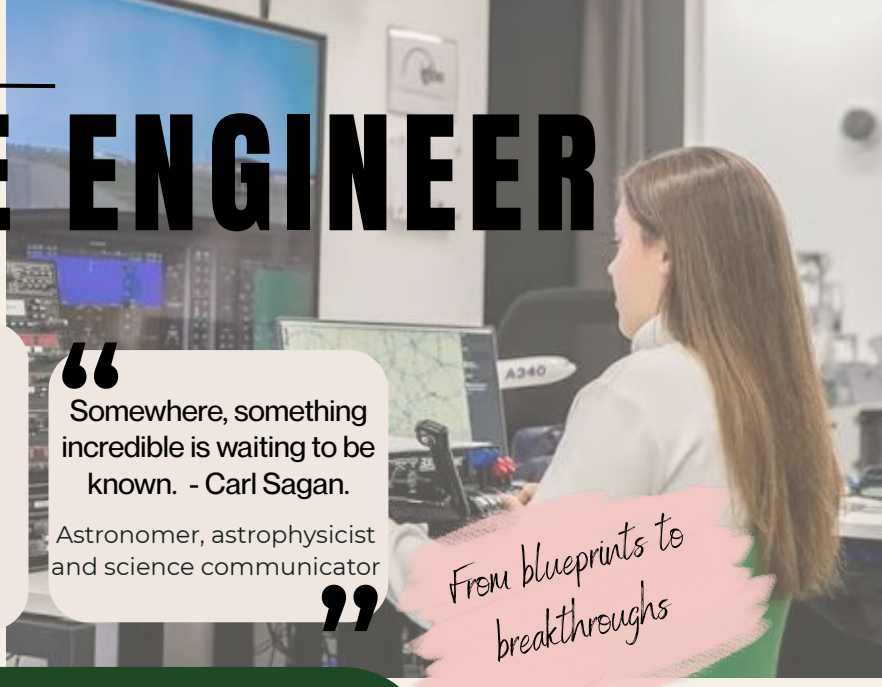
CAREER OF THE MONTH

AEROSPACE ENGINEER

Born to explore. Trained to engineer.



£30,000
STARTING SALARY

£70,000
EXPERIENCED SALARY

37-40
HOURS PER WEEK

> "Somewhere, something incredible is waiting to be known. - Carl Sagan."
>
> Astronomer, astrophysicist and science communicator

From blueprints to breakthroughs

WHAT DOES AN AEROSPACE ENGINEER DO?

As an aerospace engineer, you would design, test and improve aircraft, spacecraft and their components. You would use maths, physics and technology to solve problems and make aerospace systems safer, more efficient and reliable. You would work with other engineers to develop new technologies, and ensure that designs meet safety standards. Your work could contribute to exciting innovations in aviation, space exploration and the development of more sustainable ways to travel.

"The sky is not the limit when there are footprints on the Moon."

A DAY IN THE LIFE

- **Design** Aircraft or spacecraft components
- **Create and test computer models**
- **Use maths and physics** for calculations
- **Test materials and equipment**
- **Identify and solve technical problems**
- **Analyse** test results and data
- **Work with other engineers and scientists**

HOW DO YOU GET THERE?

- To become an aerospace engineer, you usually need a degree in aerospace engineering, aeronautical engineering, mechanical engineering or a related subject.
- To access these degree courses you usually need three A-levels (or equivalent) in relevant subjects such as Maths and Physics, and 5 GCSEs at grades 9 to 4, including English and Mathematics.
- A Level 3 apprenticeship can also get you into the aerospace industry, but you may need additional qualifications to progress into an engineer role.
- A Degree apprenticeship involves salaried work while studying for a degree, with the employer usually covering the tuition fees. Engineering degree apprenticeships are offered by a number of different companies including BAE Systems, Airbus, Rolls-Royce, Leonardo, MBDA, and Boeing.

IS THIS CAREER FOR YOU?

You might enjoy being an Aerospace Engineer if you:

- ✔ Enjoy Maths and Physics
- ✔ Have strong Maths and problem-solving skills
- ✔ Have good analytical and logical thinking skills
- ✔ Would enjoy using technology to model, build, or test designs
- ✔ Are interested in how aircraft, rockets and spacecraft work

Are you interested in applying scientific principles to real-world challenges?

WHERE COULD IT TAKE YOU?

With experience, you could progress to:

- → Becoming a Chartered Engineer (CEng)
- → Becoming a Senior engineer, aerospace engineering manager, or a senior director.
- → You can also specialise rather than move into management, for example in aerodynamics, propulsion, structures, avionics or space systems.

You could develop faster, safer and more sustainable ways to travel or explore space.

CAREER CHALLENGE

Could YOU be an Aerospace Engineer?
Fold a basic paper aeroplane, and test how far it can fly. Then change its shape or design to make it fly further. Did you improve the design?



Big opportunities await

DGGS CAREERS