CAREER OF THE MONTH

BIOMEDICAL ENGINEER

Engineering today, healing tomorrow



£26,000
STARTING SALARY

£80,000
EXPERIENCED SALARY

37-40
HOURS PER WEEK

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

WHAT DOES A BIOMEDICAL ENGINEER DO?

As a Biomedical Engineer, you would combine science, engineering and medicine to design and develop technology that improves people's health. You could create and improve medical equipment, such as artificial limbs, artificial organs, scanners and pacemakers. You could also help doctors diagnose and treat illnesses by developing innovative medical devices and solutions. Biomedical engineers use problem-solving and creativity to make healthcare safer, more effective and improve people's quality of life.

A DAY IN THE LIFE

- **Design and improve medical equipment**
- **Repair and maintain medical equipment**
- **Test medical devices** for safety and accuracy
- **Analyse test results** and experiment data
- **Research** new technologies available
- **Correspond by email** with the medical team
- **Work with doctors, nurses and other engineers**

HOW DO YOU GET THERE?

- You'll usually need a degree in Biomedical Engineering, Medical Engineering, Bioengineering or a related subject. Entry criteria for these university courses are typically 3 A levels in relevant subjects such as Maths, Physics, Biology or Chemistry and at least 5 GCSEs (9 to 4).
- A degree apprenticeship combines paid work with studying for a degree, with the employer usually covering the tuition fees. Apprenticeship opportunities may be available through healthcare organisations, medical technology companies and engineering employers such as Siemens Healthineers, GE HealthCare and Philips.
- A Level 3 apprenticeship can help you enter the medical engineering industry as a technicial, although you will need additional qualifications to progress into an engineer role.

IS THIS CAREER FOR YOU?

You might enjoy being a Biomedical Engineer if you:

- ✔ Enjoy Physics and Biology
- ✔ Are interested in how the human body works
- ✔ Like problem solving and finding solutions
- ✔ Enjoy designing, building or improving things
- ✔ Are curious about medical technology and equipment
- ✔ Have good attention to detail
- ✔ Like working in a team with other people.

WHERE COULD IT TAKE YOU?

With experience, you could progress to:

- → Become a senior biomedical engineer
- → Lead a team of engineers
- → Teach or train future biomedical engineers
- → Move into medical technology research and development
- → Specialise in an area such as artificial limbs, medical devices or medical imaging

You could develop manage projects to develop brand new medical technology and save lives.

CAREER CHALLENGE

Could YOU be a Biomedical Engineer?
Find a problem! Notice an object from your everyday life that could be difficult for someone with an injury or disability to use. How could you make it easier?



Big opportunities await

DGGS CAREERS