

Job Profile Cards



National Careers Week 2020 Edition



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Computer Game Designer

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Computer games developers make games for the internet, mobile phones, PCs and games consoles. This sector is projected to grow by **2.8%** by 2024 creating **8,600** extra jobs.



£19,500 - £59,000 per year



Working 30 - 40 hours per week



You'll usually need **5 GCSEs** at grades 9 to 4 for a level 3 qualification such as **A-levels**, a **BTEC** in Creative Media Production/Games Development or a **T level** in Digital Production, Design and Development. You could do a **degree** in computer games development or related subject. You can also do an advanced or higher **apprenticeship** in creative and digital media or software development. You can build your experience by starting as a computer games tester.

Useful subjects: Computing, Information Technology, Art and design, Media and Maths



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Robotics engineer



Robotics engineers design and build machines to do automated jobs in industries like manufacturing, aerospace and medicine. This sector is set to grow by **2.8%** creating an extra **2,600** jobs by 2024.



£27,500 - £55,500 per year



Working 37 - 40 hours per week



You'll usually need 5 **GCSEs** at grades 9 to 4 for a level 3 qualification such as **A-levels** (including maths and physics) or a **Level 3 Certificate** in Robotics and Automation. You can do a **degree** in artificial intelligence and robotics or related subject. You could do a degree **apprenticeship** in a robotics specialism such as manufacturing engineering. You'll find it useful to join robotics engineering groups or take part in robotics design competitions to build up your skills and knowledge.

Useful subjects: English, Maths, Physics, Computer Science/I.T



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Energy engineer



Energy engineers research, design and build power generation plants, and work in the oil and gas industry. This sector is predicted to grow by **2.8%** creating an extra **1,100** jobs by 2024.



£20,000 - £80,000 per year



Working 41 - 43 hours per week



You'll usually need 5 **GCSEs** at grades 9 to 4 for a level 3 qualification such as **A-levels** (including maths and a science) or an equivalent level 3 qualification. You can do a **degree** in energy engineering or related subject. You may be able to start by doing a degree **apprenticeship** in power or nuclear engineering.

Useful subjects: English, Maths, Sciences, Computer Science/I.T and Geography



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Drone Pilot



Drone pilots remotely operate aircraft used in work like surveying, film making and aerial photography. This career sector is set to grow by **3.6%** by 2024 creating an additional **900** jobs.



Variable (self-employed)



Working 39 - 41 hours per week



You can apply for jobs directly. Most employers will expect you to have experience of flying drones, with at least 40 hours of recorded flying time. You could complete training approved by the Civil Aviation Authority. After successfully completing training, you can apply for the Permission for Commercial Operations certificate, which you need to fly drones for commercial purposes.

Useful subjects: Maths, English and Physics.



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Video editor

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Video editors bring together images and sound for use in film, TV and online productions. This sector is set to grow by **3.1%** creating an extra **2,900** jobs by 2024.



£18,000 - £45,000 a year



Working 39 - 41 hours per week



You'll usually need 4 or 5 **GCSEs** at grades 9 to 4 (A* to C), or equivalent, for a level 3 course such as **A-levels** or a **BTEC** in Creative Media Production. Many then move onto higher education such as a **degree** in a subject such as media production or film and media. You can get started in this job through a broadcast production assistant advanced **apprenticeship**.

Useful subjects: Art & Design, Media, I.T, English and Maths



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Cyber intelligence officer

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Cyber intelligence officers gather information about where threats to information technology (IT) systems come from and how they work. This sector is projected to grow by **2.8%** creating an extra **5,600** jobs by 2024.



£31,500 - £50,000 a year



Working 35 - 40 hours per week



You'll usually need 4 or 5 **GCSEs** at grades 9 to 4 (A* to C), or equivalent, for a level 3 course such as **A-levels**. Many then move onto higher education such as a **degree** in a subject such as computer science, cyber security or mathematics. You could do a higher or degree **apprenticeship** in cyber security. You could start working as an I.T Technician and work your way up by studying on the job.

Useful subjects: Mathematics, I.T/Computer Science, and Physics



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Web Designer



Web designers use their creative and technical skills to design new websites and redesign existing ones. This sector is set to grow by **2.8%** creating an extra **2,200** jobs by 2024.



£18,000 - £40,000 per year



Working 37 - 39 hours per week



You'll usually need 5 **GCSEs** at grades 9 to 4 (A* to C), or equivalent, including English, maths for a level 3 course such as **A-levels** or Level 3 Certificate in Web Design and Development. Many go onto higher education to study a **degree** in web design and development or related subject. You could complete training, like an advanced **apprenticeship** for IT, software, web and telecoms professionals or higher apprenticeship in creative and digital media. You can be self taught but you will a lot of experience in web design.

Useful subjects: Maths, English, I.T, Art & Design, Graphic Design



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Forensic scientist



Forensic scientists prepare traces of physical evidence for use in courts of law. This sector is predicted to grow by **2.8%** creating an additional **3,100** jobs by 2024.



£20,000 - £45,000 per year



Working 37 - 39 hours per week



You'll usually need 5 **GCSEs** at grades 9 to 4 (A* to C), or equivalent, including English, maths for a level 3 course such as **A-levels** (including chemistry). Many go onto higher education to study a **degree** in forensic science or related subject. You may be able to start by doing a laboratory scientist higher or degree apprenticeship. You can apply directly to forensic services providers if you've got a lot of lab experience, and qualifications in science, especially chemistry.

Useful subjects: Maths, English, Chemistry, I.T and Biology.



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Biotechnologist



Biotechnologists use plants, animals, microbes, biochemistry and genetics to develop new products and improve existing ones. This sector is predicted to grow by **2.8%** creating an additional **3,100** jobs by 2024.



£19,000 - £60,000 per year



Working 38 - 40 hours per week



You'll usually need 5 GCSEs at grades 9 to 4 (A* to C), or equivalent, including English, maths and science. 2 or 3 A levels, or equivalent, including biology for a degree in biotechnology or related subject. You may be able to start by doing a laboratory scientist higher or degree apprenticeship. You could start as a lab technician and work your way up by training on the job. For example, on a part-time degree or a degree apprenticeship.

Useful subjects: Maths, English, I.T, Biology and Chemistry



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Data analyst



Data analyst-statisticians identify trends, create models, collect numerical information and present results. This sector is predicted to grow by **4%** creating an extra **1,600** jobs by 2024.



£23,000 - £70,000 per year



Working 37 - 39 hours per week



You'll usually need 5 GCSEs at grades 9 to 4 (A* to C), or equivalent, including English and Maths. 2 or 3 A levels, or equivalent, including maths for a degree in Statistics or related subject. The Royal Statistical Society runs a volunteering scheme to help people get started in the industry. You can apply to join the Government Statistical Service (GSS) as a trainee through the Civil Service Fast Stream programme.

Useful subjects: Maths, English, Economics, Psychology and Advanced Maths.



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