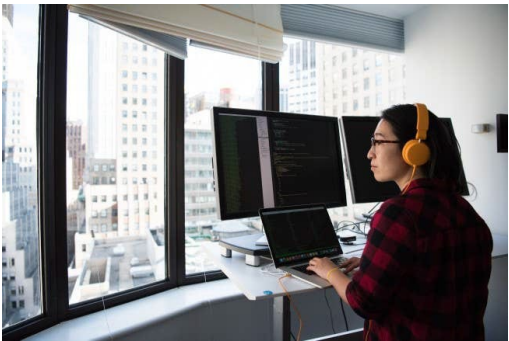


Job Title: Marine Biologist



Job Title: Marine Biologist	Cryptographers secure computer and information technology systems by creating algorithms and ciphers to encrypt data. They often also carry out the duties of a cryptanalyst, deciphering algorithms and cipher text to decrypt information.
Entry requirements:	University You'll need to complete a degree course in areas such as: • Computer Science • Computer Engineering • Mathematics Entry requirements You'll usually need: • 3 strong A levels You could then apply to organisations such as GCHQ (https://www.gchq-careers.co.uk/departments/mathematics-and-cryptography.html) or consider a postgraduate qualification before finding work You'll usually need relevant pre-entry work experience to get a job
Skills required:	You'll need: • the ability to maintain confidentiality when handling sensitive information • an understanding of major programming languages, including how to write algorithms • a strong maths background • problem solving skills • the ability to work as a critical thinker • to be adaptable / open to constant change • to be able to multi-task and prioritise your workload • the ability to work under pressure
What you'll do:	Your day-to-day tasks (or on-going projects) may include: • guaranteeing financial data is protected and only available to authorised account holders • creating security systems that guard against any exposures • ensuring that all critical information is protected from being edited, copied or deleted • analysing data to solve any security issues using mathematical and/or statistical codes • testing systems for any vulnerabilities and ensure they are accurate and reliable • aiding in solving security issues for the government or businesses • keeping up to date with current research and strategies for coding and applications
What you'll earn:	• Starter: £31,500 • Experienced: £109,000 <i>These figures are a guide</i>
Working hours, patterns and environment:	Typically 35 – 40 hours a week (9am to 5pm) although this may vary depending on particular projects or the nature of your work (for example some organisations may require you to work shifts, including evenings, nights and weekends). You will mostly be office based, although some travel might be needed when meeting clients.

Career path and progression:	Once employed you may be able to complete a postgraduate course as part of your role. There is also the option to go into leadership, management and supervisory positions once you have gained the relevant experience.
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