# Cyber Intelligence Analyst Career Overview**Job title:** Cyber Intelligence Officer

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| **Job title:**  | Cyber intelligence officers gather information about where threats to information technology (IT) systems come from and how they work. |
| **Routes and Entry requirements:**  | **University**You can do a degree or postgraduate qualification in one of the following subjects:* computer science
* computer or cyber security
* mathematics
* network engineering and security

You could take a postgraduate course in computing or cyber security if your first degree is not in a related subject, or if you have a lot of industry experience.You'll usually need:* 2 to 3 A levels, or equivalent, for a degree
* a degree in a relevant subject for postgraduate study

**Apprenticeship**You could do a higher or degree apprenticeship in:* cyber security
* cyber intrusion
* network engineering

You'll usually need:* 4 or 5 GCSEs at grades 9 to 4 (A\* to C) and A levels, or equivalent, for a higher or degree apprenticeship

**Work**You could start work with an IT security firm, for example as a support technician after doing GCSEs or A levels, then work your way up while studying for further qualifications on the job.**Other routes**If you have a degree or relevant work experience, you could apply for [MI5's Intelligence and Data Analyst Development Programme](https://www.mi5.gov.uk/careers/opportunities/intelligence-and-data-analyst-development-programme-idadp). |
| **Skills required:**  | You'll need:* knowledge of computer operating systems, hardware and software
* complex problem-solving skills
* the ability to use your initiative
* the ability to accept criticism and work well under pressure
* telecommunications knowledge
* to be thorough and pay attention to detail
* persistence and determination
* maths skills
* to have a thorough understanding of computer systems and applications
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| **What you'll do:**  | In this role you'll often be:* identifying common weaknesses in IT networks
* using digital resources to gather information and evidence
* using computer forensics to identify attackers, their motivations and techniques
* analysing threats to major security systems
* monitoring new and evolving threats and assessing their potential impact
* keeping databases of threats and hackers
* producing threat assessment reports with recommendations for protective action
* developing relationships with other organisations to safely share security knowledge
* updating your skills and knowledge

Restrictions and requirementsFor public sector work, you may need to go through UK Security Vetting. This includes:a counter terrorist checka security check (SC) - for access to information classified as 'secret'developed vetting (DV) - for access to information classified as 'top secret'For private sector work, you may not need to be vetted unless you're working on government systems. |
| **What you’ll earn:**  | £31,500 Starter *to* £50,000 Experienced |
| **Working hours, patterns and environment:** | * Typical hours 35 to 40 a week
* You could work evenings/weekends
* You could work in an office or at a client's business.
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| **Career path and progression:** | With experience, you could become a specialised cyber security lead and then head of cyber security. You could also work as a freelance security contractor. |