What do Information Security Analysts do?

Perform a variety of computer network activities, such as implement or monitor security measures; design, create, and modify web sites; or design and implement computer and data communication networks.

By Gerd Altmann on Pixabay

Work Content

Develop plans to safeguard computer files against accidental or unauthorized modification, destruction, or disclosure and to meet emergency data processing needs.

Monitor current reports of computer viruses to determine when to update virus protection systems.

Encrypt data transmissions and erect firewalls to conceal confidential information as it is being transmitted and to keep out tainted digital transfers.

Perform risk assessments and execute tests of data processing system to ensure functioning of data processing activities and security measures.

Document computer security and emergency measures policies, procedures, and tests.

Train users and promote security awareness to ensure system security and to improve server and network efficiency.

Median annual wage *
$97,610
Projected employment **
673
Annual openings (Jobs)
58

Places to work

Computer Systems Design and Related Services
Insurance Carriers and Related Activities
Computer and Electronic Product Manufacturing
Data Processing, Hosting, and Related Services

Career Cluster

information technology

* Wage estimates based on surveys conducted from November 2017 to May 2019,

** Projected Occupational Employment in 2028

How do you become an Information Security Analyst?

Information security analysts need at least a four-year college degree in a computer-related field, such as Computer Science or Information Technology. Businesses prefer to hire analysts with some experience in a related occupation. In general, the ability to stay up-to-date to constant changes and developments in information security is a valuable skill.

Interests (Holland Codes)

Conventional — Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details more than with ideas. Usually there is a clear line of authority to follow.

Investigative — Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.

Work environment

Most information security analysts work for computer companies, consulting firms, or business and financial companies. They help these organizations with innovative solutions to prevent hackers from stealing critical information or causing problems for computer networks.

Explore more: ***

IEEE Computer Society, www.computer.org/

*** Inclusion of this information is intended to provide a convenient resource for exploration, but does not constitutes an endorsement for any organization, nor is the list all-inclusive.

Source:
New Hampshire Employment Projections, base year 2018 to projected year 2028
New Hampshire Occupational Employment and Wages, May 2019
Occupational Outlook Handbook, Bureau of Labor Statistics