

Computer Network Professional

Computer network professionals research, analyse and recommend strategies for network architecture and development; implement, manage, maintain and configure network hardware and software, and monitor and optimise performance; and troubleshoot and provide user support.

Job title examples

- Computer Network and Systems Engineer
- Network Administrator
- Network Specialist
- Network Support
- Network Analyst
- Network Consultant
- Network Designer
- Network Strategist

Other jobs in this field of work

What computer network professionals do

- analyse, develop, interpret and evaluate complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems
- research, analyse, evaluate and monitor network infrastructure to ensure networks are configured to operate at optimal performance
- assess and recommend improvements to network operations and integrated hardware, software, communications and operating systems
- provide specialist skills in supporting and troubleshooting network problems and emergencies
- install, configure, test, maintain and administer new and upgraded networks, software database applications, servers and workstations
- provide network programming in support of specific business needs and requirements
- prepare and maintain procedures and documentation for network inventory, and record diagnosis and resolution of network faults, enhancements and modifications to networks, and maintenance instructions
- monitor network traffic and activity, capacity and usage to ensure continued integrity and optimal network performance

Main employing industries



- Information Media and Telecommunications
- Professional, Scientific and Technical Services (e.g. computer systems design services)

Qualifications



The following government subsidised qualification is available in NSW:

Diploma of Information Technology Networking available as a traineeship or qualification

Apprenticeships and traineeships: Find out how to get an [apprenticeship or traineeship](#).

Course fees: You may be eligible for government subsidised training under Smart and Skilled. Go to the [Course Finder](#) to find training in your area, estimate your fee and find a training provider.

Job prospects and pay



- There are around 7,926 computer network professionals working in NSW.
- Over the next four years, employment in this occupation is expected to grow in NSW.

Average weekly full time earnings (before tax):

- Computer Network Professionals: \$1,857
- All occupations: \$1,200

Related jobs



- Database and Systems Administrator and ICT Security Specialist
- Multimedia Specialist and Web Developer
- Software and Applications Programmer

To find out more regarding these related jobs, visit the [Job Guides Homepage](#).

Information sources

Occupations: Australian Bureau of Statistics, Australian and New Zealand Standard Classification of Occupations, 1220.0
Employment: Australian Bureau of Statistics, Labour Force, Australia, Detailed, Quarterly, 6291.0.55.003
Skills shortages: Department of Employment, Skill Shortage List NSW 2015-16
Job prospects: Centre of Policy Studies (CoPS), Victoria University, Employment Forecast Data for NSW 2015/16 to 2022/23
Earnings: Department of Employment, [joboutlook.gov.au](#), based on ABS Characteristics of Employment Survey, August 2014