

# Software and Applications Programmer

Software and applications programmers design, develop, test, maintain and document program code in accordance with user requirements, and system and technical specifications.

## Job title examples



- Analyst Programmer
- Developer / Programmer
- Software Engineer
- Software Developer
- Software Programmer

## Other jobs in this field of work

## What software and applications programmers do



- research, consult, analyse and evaluate system program needs
- identify technology limitations and deficiencies in existing systems and associated processes, procedures and methods
- test, debug, diagnose and correct errors and faults in an applications programming language within established testing protocols, guidelines and quality standards to ensure programs and applications perform to specification
- write and maintain program code to meet system requirements, system designs and technical specifications in accordance with quality accredited standards
- write, update and maintain technical program, end user documentation and operational procedures
- provide advice, guidance and expertise in developing proposals and strategies for software design activities such as financial evaluation and costings for recommending software purchases and upgrades

## Main employing industries



- Professional, scientific and technical services (e.g. computer system design services)
- Financial and insurance services
- Public administration and safety

## Qualifications



The following government subsidised qualifications are available in NSW:

**Certificate IV in Programming** available as a qualification

**Diploma of Software Development** available as a qualification

**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 35,167 software and applications programmers working in NSW.
- Over the next four years, employment in this occupation is expected to grow in NSW.
- Currently, employers across NSW report recruitment difficulties for senior programmers.

### Average weekly full time earnings (before tax):

- Software and applications programmers: \$1,613
- All occupations: \$1,200

## Related jobs



- Multimedia specialist and web developer
- Computer network professional
- Database and systems administrator and ICT security specialist

To find out more about other 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](http://joboutlook.gov.au), based on ABS Characteristics of Employment Survey, August 2014