

CAREER FACT SHEET

Electronics Engineers

Snapshot

Electronics Engineers design, develop, adapt, install, test and maintain electronic components, circuits and systems used for computer systems, communication systems, entertainment, transport and other industrial applications

How many are employed in this occupation?	7,600
What are the average weekly earnings for full time workers?	\$2,288
How does unemployment compare with other occupations?	Above Average
What are the job prospects for this occupation?	Medium
What will be the likely future employment growth for the next five years?	Relatively Steady

Main employing industries

Manufacturing; Professional, Scientific and Technical Services; Public Administration and Safety; Transport, Postal and Warehousing

Tasks

This occupation may include associated occupations with varying tasks.

- designing electronic components, circuits and systems used for computer, communication and control systems, and other industrial applications
- designing software, especially embedded software, to be used within such systems
- developing apparatus and procedures to test electronic components, circuits and systems
- supervising installation and commissioning of computer, communication and control systems, and ensuring proper control and protection methods
- establishing and monitoring performance and safety standards and procedures for operation, modification, maintenance and repair of such systems
- designing communications bearers based on wired, optical fibre and wireless communication media
- analysing communications traffic and level of service, and determining the type of installation, location, layout and transmission medium for communication systems
- designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software

INDUSTRY OVERVIEW

Manufacturing

If you're a hands on sort of person who likes getting stuck into tasks involving the use of tools and machinery to create new items, or you like to work on projects that bring technical concept drawings to life, then a career in the Manufacturing industry could be right up your alley. Careers in Manufacturing are available in a variety of industries such as: aerospace, furnishing, laboratory operations, metal fitting, engineering and boating, process manufacturing, mineral products, plastics, rubber, recreational vehicles and textiles, clothing and footwear. Structural Steel and Welding Trades workers, and Metal Fitters and Machinists are the trades most in demand in Manufacturing at present. There are thousands of Manufacturing businesses in Australia, employing almost one million people. New developments in sustainable Manufacturing aim to produce goods in an environmentally friendly and sustainable way while at the same time maintaining, if not improving productivity. This makes it a very interesting time to join this sector.



Manufacturing

Possible job pathways

- Glaziers
- Graphic Pre-press Trades Workers
- Industrial Spraypainters
- Metal Fitters and Machinists
- Precision Metal Trades Workers
- Sheetmetal Trades Workers
- Structural Steel and Welding Trades Workers
- Wood Machinists and Other Wood Trades Workers
- Chemical, Gas, Petroleum & Power Plant Operators
- Electrical Engineering Draftspersons, Technicians
- Electricians
- Electronics Engineers
- Metal Casting, Forging & Finishing Trades
- Aircraft Maintenance Engineers
- Engineering Production Systems Workers
- Engineers (Chemical and Material)
- Industrial, Mechanical and Production Engineers
- Mechanical Engineering Draftspersons, Technicians
- Food and Drink Factory Workers
- Production Managers
- Printers
- Printing Assistants and Table Workers
- Signwriters
- Jewellers
- Product Assemblers

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