



Australian Government

**STUDY
AUSTRALIA**



Career Matcher

TECHNOLOGY CAREERS

For analyst driver personality types



AWESOME CAREERS IN TECHNOLOGY

Technology lies at the heart of every industry, from healthcare and finance to transport and education. Technology skills are highly valued. A career in this dynamic field means you'll enjoy endless variety, strong demand and constant professional growth.

In a crowded graduate market, having technology qualification will make you more employable. Jobs in STEM (Science, Technology, Engineering and Maths) are growing twice as fast when compared to other jobs, and technology remains one of the highest paid industries with salaries for technology roles higher than most competing sectors.

You may not necessarily be a specialist in tech subjects but everyone will need a solid understanding of how certain technologies and technical skills fit into your chosen career. In fact, the very idea that technical skills are unrelated to other knowledge is outdated. You should do everything to become tech-savvy for whatever career you choose.

Planning on University

If you're going to university you can take a degree in one of the technology specialist areas. This is perfect if you have selected a technology field and make that your core competency and the one you build your future career and employment around.

Those not selecting technology as their core degree should consider a double degree. By adding a technology degree, you establish yourself in two fields and doubles your career opportunity. For example,

Law: After completing this double degree, you'll have what it takes to thrive as an IT professional who specialises in legal information systems and security. Because technology skills are now essential for lawyers, this course will also give you a significant edge if you pursue a legal career.

Arts: The rapid growth of the IT industry calls for people who deeply understand the social and human factors that are shaping it. By studying arts, you'll develop the expertise needed to influence and manage emerging technologies.

About your Technology Careers Report

Based on the answers you gave we discover your personal strengths and what you are good at. We match you to SIX digital career sectors that require these skills. In each career sector we define technology occupations we suggest you consider.

Going to a Vocational College (VET)

To work in the technology sector, it's not necessary to have a university degree. There are many careers where a Certificate or Diploma will get you a great job.

You can get a technology qualification at TAFE, or private colleges and institutes who offer vocational courses. For instance, Digital Marketing Colleges who explore digital marketing tactics and strategies in greater depth are where you can earn your qualifications in a growing technology sector.

VET courses are practical, hands-on programs, which will have you job-ready or provide a pathway to further undergraduate study.

You could find yourself achieving success in your career anywhere in the world. An Australian qualification in technology is recognised and accepted by international employers such as IBM, Intel, Microsoft, Google, and Samsung.

Choose A Career That Matches Your Personality

There is significant research on the connection between personality and career success.

Once you understand what your strengths and talents are you have the confidence to make the right career choices.

The more you connect with your job, the more passionate you become and the greater personal reward, purpose and career satisfaction you achieve.



Technology Careers for Analyser Drivers to explore



Blockchain & cryptocurrency

A blockchain is a digital record of transactions. The name comes from its structure, in which individual records, called blocks, are linked together in single list, called a chain.

Each transaction added to a blockchain is validated by multiple computers on the Internet. In the simplest terms it can be described as a data structure that holds transactional records and while ensuring security, transparency, and decentralization.

Cryptocurrency is a type of digital currency that uses cryptography for security and anti-counterfeiting measures. Public and private keys are often used to transfer cryptocurrency between individuals. This means users must reach a consensus about cryptocurrency's value and use it as an exchange medium.

Discover jobs in blockchain & cryptocurrency

Blockchain Engineer

Blockchain engineers specialize in creating and implementing digital solutions for organizations by utilizing a unique type of technology. Blockchain technology allows information to be distributed and shared publicly via the Internet without being copied.

Security Architect

A security architect is the individual who is responsible for maintaining the security of a company's computer system. They must think like a hacker would, because they must anticipate all of the moves and tactics that hackers will use to try and gain unauthorized access to the computer system.

Cryptographer

A cryptographer is someone who develops algorithms, ciphers and security systems to encrypt sensitive information and provide privacy for people and corporations. Encryption was once used solely for military purposes, but in today's world, encryption is needed for all kinds of uses.

Blockchain Developer

A developer responsible for developing and optimizing blockchain protocols, crafting the architecture of blockchain systems, developing smart contracts and web apps using blockchain technology are commonly called blockchain developers. They utilize various programming languages to create interfaces, features, and architecture for different purposes, such as payment processing.

Blockchain Web Designer

A developer responsible for developing and optimizing blockchain protocols, crafting the architecture of blockchain systems, developing smart contracts and web apps using blockchain technology are commonly called blockchain developers.

Distributed Ledger Technologist

A distributed ledger can be described as a ledger of any transactions or contracts maintained in decentralized form across different locations and people. All the information on it is securely and accurately stored using cryptography and can be accessed using keys and cryptographic signatures.

DevOps Engineer

DevOps Engineer works with developers and the IT staff to oversee the code releases. They are either developers who get interested in deployment and network operations or sysadmins who have a passion for scripting and coding and move into the development side where they can improve the planning of test and deployment.

UI / UX Designer

UX design refers to user experience design, while UI design stands for user interface design. Both of these are crucial to an IT product and need to work closely together. Despite being very integral to each other, the roles themselves are quite different, involving distinct processes.



**FIND A COURSE
IN BLOCKCHAIN & CRYPTOCURRENCY**

VISIT STUDY AUSTRALIA COURSE FINDER



Business systems & analytics

The Business analytics and Information systems person provides the skills and knowledge necessary for business and data analytics, information systems development and support positions in both business and non-business organizations.

Business systems analysts review computers and computer programs used by a company and advise stakeholders on ways to make processes more efficient and employees more productive.

Discover jobs in business systems & analytics

Application Architect

In the world of technology, an Application Architect plays an important role in the design and analysis of software projects. They create new applications or improve existing applications, run software tests, develop product prototypes and create technical documents and manuals relating to application development.

Business Analyst

Business analysts (BAs) are responsible for bridging the gap between IT and the business using data analytics to assess processes, determine requirements and deliver data-driven recommendations and reports to executives and stakeholders.

Business Intelligence Analyst

Business intelligence (BI) analysts use data to figure out market and business trends for companies to increase profits and efficiency. They are able to look at large chunks of data and understand trends, and then communicate those trends to the company.

Visualisation Engineer

Data Visualisation Engineer role is responsible for design, visual, modelling, architecture, java, training, integration, database, security, analysis. Data visualisation refers to techniques used to communicate insights from data through visual representation. Its main goal is to distil large datasets into visual graphics to allow for easy understanding of complex relationships within the data.

Change Manager

Change management is a systematic approach to dealing with the transition or transformation of an organization's goals, processes or technologies. The purpose of change management is to implement strategies for effecting change, controlling change and helping people to adapt to change.

Business Process Modeller

Business process modelling (BPM) is a practice that helps organizations understand how their strategy relates to their IT systems and system development. It helps many companies to document the business processes that they have and are able to quickly analyse their workflow.

Testing Manager

The role of the software test manager is to lead the testing team. The Test Manager takes full responsibility for the project's success. The role involves quality and test advocacy, resource planning & management, and resolution of issues that impede the testing effort.

Solutions Architect

A solution architect, in information technology, is a practitioner of solution architecture. Designing a solution requires understanding how different parts of the business work together. But the architect must also understand tech specifics. As a result, solution architects constantly deal with analytical work.



**FIND A COURSE
IN BUSINESS SYSTEMS & ANALYTICS**

VISIT STUDY AUSTRALIA COURSE FINDER



Computer systems specialists

Computer systems specialist provides technical support, training, and direction to staff using computer equipment and applications on a wide area network (WAN) or large local area network (LAN).

They install, test, and resolve problems with computer hardware and software; adapt existing software to accommodate the database needs of departments; develop and maintains Intranet and Internet Web sites, and perform related duties as required.

Discover jobs in computer systems specialists

Systems Analyst

Systems analysts use their expertise to introduce computer systems, or to modify existing systems as a way to boost technical efficiency and business productivity. For a given job, the starting point may be to assess the client's system requirements. You then formulate solutions based on the latest technologies and considering the budget constraint. A computer science, information management systems, or other IT-related degree is necessary to make you competitive in this field. You also need relevant work experience, as well as programming knowledge and project management skills.

Job Titles

Applications Support Analyst • Asset Knowledge Systems Analyst
Cluster IT Specialist • Eservices Systems Team Lead • ICT Procurement Sourcing Analyst • ICT Support Analyst • ICT Systems/Data Support Analyst • ICT Systems Trainer • Incident Response Analyst • Infra Support Analyst • Systems Analyst

Systems Administrator

Systems administrators (or managers) configure, maintain, and ensure the continued reliability of computer systems. They mostly deal with multi-use computers, including servers. An organisation's system administrator manages IT infrastructure, including servers and network equipment. The role is essential to the successful operation of any company with a computer system. A degree in a field such as information technology or computer science is often required for administrator positions.

Job Titles

Client Services & Information Officer • ICT Network & Systems Administrator • ICT Systems Administrator • ICT Systems Manager
Information & User Support Officer • Linux Systems Administrator • People Systems Administrator • Senior Windows System Administrator • Software Administrator • Systems Administrator • Systems Operation Manager

Systems Engineer

Systems engineers design, set up and manage computer systems. They often work closely with programmers, administrators and engineers. These professionals not only develop and test but also evaluate personal computers, circuits, software, and other system elements. If you want to become a system engineer, you'll probably need a computer science, information technology, or engineering degree. You'll also need to develop excellent communication and organisation management skills.

Job Titles

Control Systems Engineer • ICT Network & Systems Engineer • ICT Systems Engineer • Senior/Principal ICT Engineer • Senior Systems Engineer • Systems Administration Field Support Engineer • Systems Developer (Database Applications) • Systems Engineer • Senior Support Engineer



**FIND A COURSE
IN COMPUTER SYSTEMS SPECIALISTS**

VISIT STUDY AUSTRALIA COURSE FINDER



Data analytics

These professionals develop insight and gain information through the collection, analysis and interpretation of data. They work for businesses and other types of organizations, identifying and helping to solve problems. As a data analyst, you'll use programming and computer software skills to complete statistical analysis of data.

If you want to start a career as a data analyst, learn some programming languages and get a bachelor's degree in Information Technology and Data Analysis.

Discover jobs in data analytics

Business Intelligence Analyst

Business intelligence analysts gather this data through a number of ways, from mining a company's computer data through software, looking at competitor data and industry trends to help develop a picture of where the company stands in the industry, where they can improve and where they can reduce costs.

Business Intelligence Architect

A business intelligence architect (BI architect) is a top-level sort of business intelligence analyst who deals with specific aspects of business intelligence, a discipline that uses data in certain ways and builds specific architectures to benefit a business or organization.

Big Data Programmer

Big Data is a phrase used to mean a massive volume of both structured and unstructured data that is so large it is difficult to process using traditional database and software techniques. In most enterprise scenarios the volume of data is too big or it moves too fast or it exceeds current processing capacity.

Data Analyst

A data analyst is someone who scrutinises information using data analysis tools. The meaningful results they pull from the raw data help their employers or clients make important decisions by identifying various facts and trends. Typical duties include: using advanced computerised models to extract the data needed.

Data Engineer

Data engineers are typically software engineers by trade. Instead of data analysis, data engineers are responsible for compiling and installing database systems, writing complex queries, scaling to multiple machines, and putting disaster recovery systems into place.

Data Scientist

A data scientist is someone who knows how to extract meaning from and interpret data, which requires both tools and methods from statistics and machine learning, as well as being human. They spend a lot of time in the process of collecting, cleaning, and munging data, because data is never clean.

Tableau Analyst

Tableau is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data into the very easily understandable format. Data analysis is very fast with Tableau and the visualizations created are in the form of dashboards and worksheets.

Behaviour Prediction Analyst

Behavioural analysis focuses on understanding how consumers act and why, enabling accurate predictions about how they are likely to act in the future. Behavioural analysis allows future actions and trends to be predicted based on the collection of such data.



**FIND A COURSE
IN DATA ANALYTICS**

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Healthcare

Healthcare is an industry that is currently being transformed using the latest technology, so it can meet the challenges it is facing in the 21st century. Technology can help healthcare organizations meet growing demand and efficiently operate to deliver better patient care.

Digital information is the bedrock of high-quality healthcare. The benefits for patients are significant and compelling: hospital admissions avoided, fewer adverse drug events, reduced duplication of tests, better coordination of care for people with chronic and complex conditions, and better-informed treatment decisions. CSIRO are developing a range of digital health innovations in collaboration with health industry and government partners.

Discover jobs in healthcare

Medical Coder

Medical coding is the transformation of healthcare diagnosis, procedures, medical services, and equipment into universal medical alphanumeric codes. The diagnoses and procedure codes are taken from medical record documentation, such as transcription of physician's notes, laboratory and radiologic results, etc.

Deep Learning Expert

Deep learning is assisting medical professionals and researchers to discover the hidden opportunities in data and to serve the healthcare industry better. Deep learning in healthcare provides doctors the analysis of any disease accurately and helps them treat them better, thus resulting in better medical decisions.

Artificial Intelligence Specialist

As the world population continues to grow, and age, artificial intelligence, and machine learning offer new and better ways to identify disease, diagnose conditions, crowdsource and develop treatment plans, monitor health epidemics, create efficiencies in medical research and clinical trials, and make operations more efficient to handle the increased demands on the healthcare system.

3D Printing Technician

3D printers are used to manufacture a variety of medical devices, including those with complex geometry or features that match a patient's unique anatomy. 3D printing is used to replicate patient-specific organs that are used for practice to prep before the actual complicated operations take place. The application is by far much better and accurate than only looking at X-rays, CT scans, and MRIs.

Health Informatics Specialist

Health informatics is the practice of acquiring, studying and managing health data and applying medical concepts in conjunction with health information technology systems to help clinicians provide better healthcare, analysing data to help facilitate decisions and actions and develop data-driven solutions to improve patient health.

Synthetic Organ Designer

An artificial organ is an engineered device that can be implanted or integrated into a human body interfacing with living tissue to replace a natural organ, to duplicate or augment a specific function or functions so the patient may return to a normal life as soon as possible.

Surgical Robot Engineer

Robotic surgery, or robot-assisted surgery, allows doctors to perform many types of complex procedures with more precision, flexibility and control than is possible with conventional techniques. Robotic surgery is usually associated with minimally invasive surgery such as procedures performed through tiny incisions.

Remote Healthcare Specialist

Remote patient monitoring (RPM) is a technology to enable monitoring of patients outside of conventional clinical settings, such as in the home or in a remote area, which may increase access to care and decrease healthcare delivery costs. It allows patients to use mobile medical devices and technology to gather patient-generated health data (PGHD) and send it to healthcare professionals.



**FIND A COURSE
IN HEALTHCARE**

VISIT STUDY AUSTRALIA COURSE FINDER



Robotics

The robotics field is one of the most exciting in digital careers and among the fastest growing industries in the world.

Companies and industries are ramping up spending to keep their technology at the leading-edge. As a result, people with advanced, practical robotics experience are in extremely high demand in the labour market. That makes it a great time to pursue a career in robotics.

Discover jobs in robotics

Aerospace Engineer

Aerospace engineering is the primary field of engineering concerned with the development of aircraft and spacecraft. It has two major and overlapping branches: aeronautical engineering and astronautical engineering.

Medical Robotics

A medical robot is a robot used in the medical sciences. They include surgical robots. These are in most telemanipulators, which use the surgeon's activators on one side to control the "effector" on the other side.

Ocean Robotics

More formally known as autonomous underwater vehicles, or AUVs—are improving our understanding of how the world's ocean works and expanding our ability to conduct science at sea even under the most hostile conditions.

Robotics Engineer

Is a behind-the-scenes designer, who is responsible for creating robots and robotic systems that are able to perform duties that humans are either unable or prefer not to complete.

Robotics System Engineer

Use computer-aided design and drafting (CADD) and computer-aided manufacturing (CAM) systems to perform their tasks. Robotics research engineers design robotic systems and research methods to manufacture them economically.

Sales Engineer

Specialize in technologically and scientifically advanced products. They use their technical skills to explain the benefits of their products or services to potential customers and to show how their products are better than their competitors' products.

Software Developer

Develops software for robot control and automation. They build new software or test, improve, or debug current software. Most robotics software engineers work for the manufacturing industry and focus on robots that companies use in product production.

Space Robotics

Is the development of general purpose machines that are capable of surviving the rigors of the space environment and performing exploration, assembly, construction, servicing or other tasks.



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