



# Career News 2019 #3

## CareerNews Key Dates & Reminders

### **For Year 9-12 Students:**

#### **South East Careers Expo & 'Try a Trade'**

Over 100 exhibitors including universities, Tafe's, RTO's, government agencies, community providers and more.

When/time: Tues 2nd April, 9am – 2pm

Where: Cranbourne Racecourse

Admission: Free!

For more info please visit:

[www.sellen.org.au](http://www.sellen.org.au) or call 9794-6921.

### **For Year 10 Students**

#### **Engineering & IT Students**

Spaghetti Machine Contest for school teams – Register your team by Tuesday the 19<sup>th</sup> of March.

<https://spaghetti-machine.eng.unimelb.edu.au/australia>

### **For Year 11 Students**

#### **National Youth Science Forum Jan 2020**

A 12-day residential program designed to give students a broader understanding of career options available in science, technology, engineering and mathematics (STEM).

Applications are open from 1 March to 31 May. To find out more visit:

<https://www.nysf.edu.au/what-we-do/how-to-apply/>

### **For all VCE Students:**

#### **2019 VCE and Careers Expo**

Learn about; VCE subjects, tertiary courses, careers, employment opportunities and gap year options.

When/time: Thurs 2nd & Fri 3rd May from 9am until 3pm.

Sat 4<sup>th</sup> & Sun 5<sup>th</sup> May (10am-4pm)

Where: Station St, Caulfield Racecourse, Caulfield.

Admission: \$10 online p/p or \$12 at the door. Family and school group options available.

For details visit:

<https://www.vceandcareers.com.au/>

#### **Step on Campus Tours at Deakin Uni**

Deakin University's Step on Campus tours are running again in the Term 1 school holidays.

Tours go for 45-minutes and are running from 10<sup>th</sup> to the 16<sup>th</sup> April across Melbourne, Warnambool and both Geelong campuses. For more information please visit:

<https://www.deakin.edu.au/about-deakin/events/step-on-campus>

### **Inside Monash Seminars**

Running from March - August 2019.

Spend 90 minutes with an academic, a current and a past student and discover what it's really like to study at Monash.

To view the dates visit:

<https://www.monash.edu/inside-monash>

### **Monash Information Evenings**

Discover more about what Monash has to offer including:

- Study areas
- Undergraduate course types
- International opportunities
- How to apply
- Scholarships and fees
- SEAS and the Monash Guarantee
- Accommodation options

When: Running from March until September.

Time: 6.30pm – 8pm.

Where: Sessions will be held at various locations across Victoria. Please visit:

<https://www.monash.edu/information-evenings> to find out more and to register.

## News & Updates

### Chisholm Update –

#### Higher Education

Chisholm Institute offers a range of bachelor degrees and bachelor degree pathways. Although a V.C.E pass may be required for their courses, students do not need an ATAR to gain entry. From Community Services to Engineering there is quite a list of Higher Education courses to choose from. To learn more about these option's visit:

<https://www.chisholm.edu.au/students/higher-education>

#### Winter Workshops

Chisholm's Short Courses and School Holiday Winter Workshops are aimed at students in Years 9 - 12 (aged 14 to 19) to assist in exploring different career paths and courses that are available during and post school. With the details yet to be confirmed, you can learn more about a range of courses in health, sport and fitness, hair, beauty, IT and various trades.

This year Chisholm's Winter Workshops will be running between the 2<sup>nd</sup> – 5<sup>th</sup> of July.

So keep your eye out on the updates and register your interest here:

<https://www.chisholm.edu.au/workshopsand>

### Casey Tech School

#### Update

##### School Holiday Program

Casey Tech School has announced their first School Holiday Program which will be running from the 16<sup>th</sup>-18<sup>th</sup> of April.

Students as young as 5 can visit their virtual solar system and programs also cover other interesting topics such as robotics and coding. For more information, please visit:

[Casey Tech School School Holiday Program](#)

### University of Melbourne

#### Update

##### Hansen Scholarship

A reminder that applications for the Hansen Scholarship Program will close at 3pm AEDT on Thursday 21 March. For information visit:

<https://scholarships.unimelb.edu.au/hansen>

### Box Hill Institute

#### Update

##### A Day in the Life of a Fashion Illustrator – x1 Day Holiday Workshop

Exclusively for students in years 10, 11 and 12, this workshop provides the opportunity to experience life as a fashion illustrator and to develop skills to present creative ideas for your portfolio.

When/Time: Friday, 12 April starting at 9.30am until 4pm.

Location: Box Hill Institute – Nelson Road

Cost: \$75 plus processing fee

To register visit:

<https://www.eventbrite.com.au/e/a-day-in-the-life-of-a-fashion-illustrator-and-developing-your-fashion-portfolio-tickets-58344528054>

##### Trade Expo for VETiS Students

Bunnings and Box Hill Institute have partnered to present their first trade expo for VETiS students featuring the latest in tool technology, tool safety, protection and career advice. Students will see displays by Paslode, AEG Tools, Holman, Briggs & Stratton, and Mechanix Gloves.

When: Friday, 20 March at 2pm until 3pm.

Where: Lilydale Lakeside campus.

##### Augmented Reality Welding

An exciting opportunity exists for students wishing to trial simulated welding using an augmented reality headset and hand tools. You'll be scored on your accuracy, angle and speed. Located at Box Hill Institute's campus on Elgar Road and bookings can be made by emailing: [schools@boxhill.edu.au](mailto:schools@boxhill.edu.au)

### Useful App for VCE

#### Students

##### Access Education

An app designed to make VCE revision fun! From the first day of term 2 right through to the last day of term 3 you will receive approximately 150 questions directly to your device on a weekly basis! For more info visit:

<https://www.accesseducation.com.au/promo/browse?promo=Quitich>

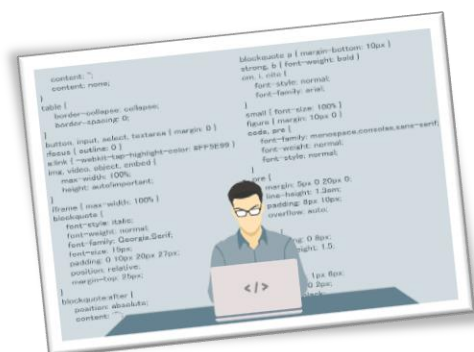
### Being 'Future Ready'



With the next wave of the industrial revolution changing the future of Australia's workforce, we must plan now for the changes, challenges and opportunities in the landscape of our workforce.

Lisa Denny, a research fellow at the Institute for the Study of Social Change and University of Tasmania reports that automation and AI (Artificial Intelligence) will replace jobs with high levels of routine and repeatable and predictable processes which require precision. Clerical jobs in administration, reception or data entry clerk will be replaced if they haven't already. Whereas "non-routine jobs which need human problem solving, creativity, adaptability, flexibility, physical dexterity, and communication skills will be the jobs of the future" Lisa explains. So it is important to be aware of how technology is changing our future and what the forecasted employment opportunities will be.

There are four sectors to show the most growth; health care and social assistance; construction; education and training; and professional, scientific and technical services. The top five areas forecasted to show job growth are positions in; Aged and disabled care, registered nursing, child care, software and applications programming and Waiting. The Foundation for Young Australians (FYA) have also undertaken research on the key factors that assist in the transition from education to full-time work. Apart from having an optimistic mindset and choosing a career pathway in a growing sector, it is crucial that you find the right course that helps you build transferrable skills such as problem solving, effective communication and team work. Many institutions incorporate units of study that are designed to prepare you for applying for jobs once you are qualified. Some institutions also work with affiliates who offer work placement to help students with building their industry work experience.



## Career Focus – IT (Computer Programmer)

According to the Australian Government Department of Jobs and Small Business, Computer System and Design professionals are projected to have a 15.6% increase in job opportunities by May 2023. Information Technology Programmers write, test and maintain computer programs to ensure that the computer application meets the needs of the users of the computer system.

Programmers are responsible for:

- Assisting systems analysts and designers in researching and documenting computer users' requirements.
- Analysing objectives and problems specified by analysts and designers.
- Translating the solutions provided by systems designers into detailed program specifications.
- Preparing documentation for other programmers, users of the system and other support services workers.
- Undertaking program design activities including definition of data and error message arrangements.
- Supervising and reporting on the work of junior programmers.
- Modifying and documenting program code to correct errors or to enhance a program's capabilities.
- Testing the programs and making amendments.
- Preparing reports on the status, operation and maintenance of system software for use by computer equipment suppliers, system designers, other programmers and computer operators.

To consider programming as a pathway, it is helpful to have an ability to work independently as well as part of a team, be a good communicator, have an aptitude for technical activities and a logical approach to finding solutions to problems. But most importantly, having a general interest in technology and updating your knowledge as it changes is beneficial.

To become qualified as a programmer, you usually have to complete a VET qualification. You can also become a programmer by studying information technology or computer science at university with a major in programming, software development or games development. To gain entry into these courses, you usually need to have completed your VCE or Senior Secondary Certificate of Education. Prerequisite subjects, or assumed knowledge, in one or more of English and Mathematics are normally required. As always advised, you will need make contact with your chosen institutions for more information on course prerequisites and requirements.

Once qualified, Programmers have the opportunity to work in small companies, large organisations or on a freelance basis. People working as Programmers typically advance into designer and analyst roles after some years of experience. In some smaller organisations, all three roles may be carried out by a single individual.

Those wishing to become qualified can become a member with the Australian Computer Society [www.acs.org.au](http://www.acs.org.au). For further information on this career you can visit Technology Industry Association [www.tia.asn.au](http://www.tia.asn.au).

Courses and degrees can incorporate a combination of streams i.e. Information Technology and Web Development, Cyber Security, Business, Design, Digital Design, Criminology, Commerce and Cloud Computing, Engineering, Visual Arts etc. However, the below table outlines current VET courses and undergraduate courses in Information Technology in Victoria:

Institution/Campus	Course	Duration	ATAR
<b>PATHWAY COURSES (VET)</b>			
Box Hill Institute - (Box Hill)	Certificate IV in Information Technology	1 Year	NA
Box Hill Institute - (Box Hill)	Diploma of Information Technology Networking	1 Year	NA
Box Hill Institute - (Box Hill)	Diploma of Information Technology Systems Administration	1 Year	NA
Chisholm Institute (Dandenong)	Certificate IV in Information Technology and Diploma of Software Development	1 Year	NA
Federation University - (Ballarat)	Certificate IV in Information Technology Diploma of Information Technology	1 Year	NA
Federation University - (Ballarat)	Certificate III in Information, Digital Media and Technology	1 Year	NA
Holmesglen - (Chadstone)	Certificate IV in Information Technology Networking Diploma of Information Technology Networking	1 Year	NA
Holmesglen - (Chadstone)	Certificate IV in Programming Diploma of Software Development	1 Year	NA
Kangan Institute - (Broadmeadows)	Certificate III in Information, Digital Media and Technology	6 months	NA
Melbourne Polytechnic - (Preston)	Diploma of Information Technology	1 Year	NA
RMIT - (Melb - City)	Certificate IV in Information Technology Networking	1 Year	NA
RMIT - (Melb - City)	Diploma of Information Technology Networking	1 Year	NA
Swinburne University of Technology (Hawthorn)	Computer Systems Technology - Certificate IV/Advanced Diploma	1 Year	NA
Swinburne University of Technology (Hawthorn)	Software Development - Certificate IV/Diploma	1 Year	NA
Victorian Institute of Technology (Melb - City)	Diploma of Information Technology Networking	1.5 Years	NA
<b>PATHWAY COURSES</b>			
Academy of Information Technology	Diploma of Information Technology	1 Year	NA
CQUniversity - (Melbourne, Online)	Diploma of Information Technology	1 Year	NA
CQUniversity - (Melbourne, Online)	Associate Degree in Information Technology	2 Years	NA
Deakin University - (Burwood)	Diploma of Information Technology	8 Months	30.55
La Trobe College Australia (Melbourne)	Diploma of Information Technology	8 Months	NA
RMIT University	Associate Degree in Information Technology	2 Years	42.00
Swinburne University of Technology (Hawthorn)	Diploma of Information Technology (UniLink)	8 Months	52.90
Victoria University - (Footscray Nicholson)	Diploma of Information Technology	1 Year	NA
<b>PATHWAY COURSES</b>			
CQUniversity - (Melbourne, Online)	Bachelor of Information Technology	3 Years	NA
CQUniversity - (Melbourne, Online)	Bachelor of Information Technology (Co-op)	3 Years	NA
Deakin University - (Cloud, Geelong, Melbourne)	Bachelor of Information Technology	3 Years	60.0-62.30
Federatioin University - (Berwick, Gippsland, Ballarat)	Bachelor of Information Technology	3 Years	31.90-53.05
LaTrobe University - (Bendigo, Melbourne)	Bachelor of Information Technology	3 Years	52.10-53.10
Melbourne Polytechnic (Prahan, Preston)	Bachelor of Information Technology	3 Years	NA
Monash University - (Clayton)	Bachelor of Information Technology (Indigenous Entry)	3 Years	NA
Monash University - (Clayton)	Bachelor of Information Technology	3 Years	80.15
RMIT University - City	Bachelor of Information Technology	3 Years	67.05
Swinburne University - (Hawthorn)	Bachelor of Information Technology – Scholarship Program	3 Years	73.70
Victoria University - (Footscray Park)	Bachelor of Information Technology	3 Years	NA

## Note:

\* Length of study period is based on minimum duration with a full time study load. Part-time options may also be available.

\* NA – Not applicable or less of 5 offers previously made. However, V.C.E English and Maths may be required. Some institutions also require further admission testing on literacy and numeracy and a pre-training interview. NR – Not required, ATAR is based on lowest selection rank with adjustment factors.

\* As subjects and course structures can vary between institutions, it is necessary to contact your chosen institution for further information.

## Career Profile (IT – Computer Network Engineer)



**Name:** Cameron Bertoncello

**Current Position:** Co-owner of 'Computer Talk' in Beaconsfield, Victoria. 'Computer Talk' is a local IT business that supports local businesses with the development, maintenance and security of their computer networks as well as assisting individual clients with their PC repairs.

**Can you tell us where you studied, how long your course duration was and where you undertook your work placement (if any) to become qualified in IT?**

I completed a Double Diploma in Network Engineering and Network Administration at Chisholm Institute in Berwick. My course went for one-year full time, where I was required to attend campus for four full days per week plus extra study. I was keen to complete my course in one year.

**While you were studying at secondary school, did you know IT is what you wanted to get into?**

Yes, I did. After I completed my V.C.E, I undertook one year of work experience with my brother in a networking role in a corporate IT business. This was an exercise for me to trial the industry and see what area of IT I wanted to explore further. With IT, there are a few areas you can specialise in, hardware i.e. networking and maintenance, software development, programming and coding.

**What do you love about your job?**

I love watching my team evolve. When we receive an email or phone call from a client praising our work, I feel a great sense of satisfaction. We have a great camaraderie in our team, so witnessing our staff grow and develop in their career is extremely rewarding.

**What personal requirements would you say are necessary in your position?**

A few attributes are helpful. The main one's are; having the ability to think on your feet, be able to problem solve, deal with pressure and be a lateral thinker. Above all, in my role, it is important to be personable; to have the people skills as well as the technical skills is vital as we fundamentally are providing a service to our clients.

**What are the challenges in your job and what are the best ways to overcome those challenges?**

Helping people understand the value of our services and encouraging people to back up their data correctly. We have identified that educating our clients on things like cyber-crime and encryption viruses is providing them with awareness and helps them develop their own preventative maintenance thus reducing lost data and call out fees.

Sources: <http://lmip.gov.au/default.aspx?LMIP/EmploymentProjections> <https://www.abc.net.au/news/2019-02-20/choosing-a-career-these-jobs-wont-go-out-of-style/10828914>

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