

CAREER NEWSLETTER

Week 4 - Term 3, 2019.

FOCUS ON CAREERS OF THE FUTURE

The heading might suggest that we have all the answers – we don't! But, there are people who have made a career out of analysing current trends and exploring predictions and possibilities for the future. So, here is what some of them are saying:

By the time you graduate from a degree or an apprenticeship, there will be many new jobs that haven't even been invented yet. Technology expansion is rapid and who knows what jobs will be advertised in 10 years' time, let alone 50? According to a La Trobe University video featuring their Bachelor of Arts degree, by 2030 2 Billion jobs will be obsolete, <http://bit.ly/1MBqTW0>. They will be replaced by ones that don't exist yet. The video also suggests you will have approximately 10 careers in your lifetime. This doesn't mean changing employers 10 times, this means different occupations. So, you may start out as a builder and then move on to teaching and then to nursing.

The message of the video is that you have to be able to **adapt as the world changes**. You will need to continually work on developing your personal skills such as communication, team work, and problem solving. You will also need to commit to lifelong learning to have up to date skills and to be competitive in the job market. So you may complete a university degree, then a TAFE qualification, then short courses, then a graduate university course and then more short courses. There is no right or wrong way of doing things, but you need to be flexible and adaptable when it comes to change, because if there is one thing you can be 100% sure of, there will be lots of it.

Amy Zuckerman is a journalist. She developed futuristic job advertisements for several technology careers, including:

- Personal Virtual-Presence Agent
- Automotive Hybrid and Fuel-Cell-Vehicle Research Engineer
- Exobiologist to Study Alien Life-Forms
- Senior Biocomputing Engineer
- Digital Matchmaker
- Gene Diagnostician

Read the advertisements here - <http://bit.ly/1RlxuMa>

If you think they sound far-fetched, just remember that it wasn't so long ago that Facebook didn't exist, we couldn't access the internet via our phone, and blue tooth and cloud computing didn't exist.

We now have courses that focus on:

- Global security and terrorism
- Genetic counselling
- Geomatics
- Human interface technology
- Renewable and 'green' energies
- iPhone & iPad App development, and
- Social analytics and data science

Apprenticeship, TAFE and university courses will continue to change and develop along with technology and our society.

The Canadian Scholarship Trust Plan and foresight strategists recently came up with descriptions for jobs that may exist in 2030. Apart from jobs that haven't been invented yet, they have predicted what jobs may be like for occupations such as teaching, plumbing, etc., <http://careers2030.cst.org/jobs/>

Interesting job titles include:

- Nostalgist
- Rewilder
- End of Life Therapist
- Telesurgeon
- Simolicity

Futurist Morris Miselowski predicts that by 2050, 60% of people will be doing jobs that don't currently exist. He predicts we could be working in jobs such as:

- Transhumanist Designer/Engineer
- Nano Medic
- Memory Augmentation Surgeon
- Ethics Lawyer
- Weather Controller
- Spaceport Traffic Control

He believes that many jobs will focus on technology and the human body- improving health and extending human life, <http://bit.ly/RN7wip>. Whilst many of these jobs focus on science and technology, all jobs will be affected and will either become obsolete or undergo significant changes. Whilst in school, it is crucial that you engage in your studies and keep an open mind about the future. What you aim to be doing in even 5 years, may not be what you will actually be doing. Just remember the mantra - change is constant and access your allies to assist you to navigate through your career.

According to the Foundation for Young Australian's, the world of work will look vastly different to the world of work you currently experience. Robotics, automation, artificial intelligence, working remotely, and increase in digital work...many things will change - even within the next 10 years.

According to their New Work Smarts report, you can expect the following to occur by 2030:

- Automation and globalization will change what we do in every job.
- Within the next 10 years, many jobs will no longer exist
- Workers will spend 100% more time solving problems, 30% more time learning and 77% more time using STEM skills (science, technology, maths, engineering) than the same jobs demand now.
- Workers will spend more time getting value out of technology and use more digital skills (e.g., updating websites)
- Workers will be more flexible and independent in the workplace.
- With globalization, more workers will collaborate with people around the world.
- Workers will spend less time on routine and manual tasks due to automation, and more time focused on people, solving strategic problems and thinking creatively.
- Teenagers can expect to work for an average of 17 employers over their lifetime across 5 different careers.

You can download the report at this link - <http://bit.ly/2uE1V2e>

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VOCATIONAL AND HIGHER EDUCATION NEWS

New medical programs

From 2021, Western Sydney University and Charles Sturt University (CSU) will be offering the 5-year undergraduate Doctor of Medicine program at the CSU Orange campus. For information on the course and admission criteria, go to <https://bit.ly/2MYQFbT>

La Trobe University and the University of Melbourne began their joint medical program this year. Year 12 students planning their VTAC medicine preferences who have lived in a rural/regional area for more than 5 consecutive or 10 cumulative years should consider applying for the La Trobe University and University of Melbourne joint medical program. Successful applicants complete the three-year Bachelor of Biomedical Science (Medical) degree at La Trobe University Bendigo or Albury-Wodonga campus and then the 4-year graduate Doctor of Medicine at The University of Melbourne, Shepparton campus.

For information on the program, admission criteria, and prerequisites, go to <https://bit.ly/2TgA9HO>

La Trobe will be hosting a Bachelor of Biomedical Science (Medical) webinar on Tuesday 3 September from 6.00pm – 7.00pm. The event is live on the website and can be found at

<https://latrobe.edu.au/events/all/bachelor-of-biomedical-science-medical-webinar>

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Careers with Engineering magazine just released!

“Engineering is more than you think. Our new mag smashes stereotypes and busts myths about what engineers do and what they look like. Meet engineers solving problems in everything from sustainability to health, defence and robotics. Get inspired about the careers of the future with 26 interviews with outstanding engineers and gain practical tips and advice. Download the magazine from

<https://bit.ly/2M0uC57>

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Cool new courses at La Trobe University

The following are examples of three new courses La Trobe is offering in 2020:

Bachelor of Arts (BA): “Our Bachelor of Arts has undergone a major refresh to allow students the flexibility to design their degree. Available from 2020, the modernised BA satisfies the desire to keep career options open while completing a vocational degree. Students can choose from over 50 majors and become an interdisciplinary expert when they combine study areas such as Sociology and Public Health”,

<https://bit.ly/2IZddnV>

Bachelor of Humanities, Innovation and Technology: “What will the future look like? Will technology change what it means to be human? We’ve brought together arts, science, business and law into one cutting-edge degree where you’ll explore the consequences of disruptive technology on human society, and what we can do about it”, <https://bit.ly/2TaEbyR>

Bachelor of Language and Linguistics: this new course “teaches effective communication across a diverse range of groups. Students will become fluent in one or more of eight languages offered with study abroad options available to support their education”, <https://bit.ly/2yI28UQ>

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Fashion short courses

The Masters Institute of Creative Direction is a private college located at Melbourne. The institute offers courses in fashion design, fashion business, hairdressing, barbering, beauty therapy, and makeup. The following short courses are being run during August and September:

- Creative writing for fashion publication
- Introduction to fashion design
- Introduction to modelling
- Melbourne Fashion Week – series of short courses such as 3D Drape for Design and Concept to Creation.

For information on dates, costs and locations, go to <https://bit.ly/2M0vEy1>

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Careers in Medical Radiation Science

Are you fascinated by the human body? Do you love science? Would you like to work in a job where you can diagnose and treat human diseases? If so, you may enjoy studying one of the following career areas: Radiography/Medical Imaging, Nuclear Medicine, Radiation Therapy, Medical Sonography. The following information has been taken from Charles Sturt University and the University of South Australia:

- **Radiography/Medical Imaging:** As a radiographer, you will be concerned with producing high quality medical images of the human body for medical diagnosis through the operation of specialist equipment, such as administering ionising radiation (x-rays), or MRI pulses to the patient.
- **Nuclear Medicine:** involves using biological tracers (radiopharmaceuticals) for the diagnosis and treatment of various diseases. The specialisation details the administration and imaging of these radiopharmaceuticals within the patient to detect physiological abnormalities and deliver appropriate treatment.
- **Radiation Therapy:** This involves the design and delivery of radiation treatment plans for people diagnosed with cancer and other pathological conditions.
- **Medical Sonography:** is the application of medical scanning which uses high frequency ultrasound waves to produce diagnostic images. Sonography assists in the detection of foetal abnormalities, vascular disease and other acute and chronic conditions.

What subjects should I study at school? Physics, Advanced Mathematical, Biology and Chemistry are recommended. You should check the prerequisites for each university.

Key Websites for more information:

- Australian Society of Medical Imaging and Radiation Therapy, <https://bit.ly/2OL04Cr>
- A Career in Radiation Oncology, <http://bit.ly/1grfEsw>
- Victorian Society of Nuclear Medicine Technologists, <https://bit.ly/21FQxcc>

The following are examples of courses you can explore:

- **Charles Sturt University**, Bachelor of Medical Radiation Science, Wagga Wagga, NSW. You choose which specialisation you want to undertake from Medical Imaging, Nuclear Medicine and Radiation Therapy, <http://bit.ly/1JCx8Vu>
- **Deakin University**, Bachelor of Medical Imaging, Geelong. Students will undertake 2500 clinical hours of placement, <http://bit.ly/2bH6CTJ>
- **Monash University**, Bachelor of Radiation Sciences, Clayton. Can choose between the following specialisations – radiation sciences or informatics, <http://bit.ly/2vHtaMx>
- **Monash University**, Bachelor of Radiography and Medical Imaging (Honours), Clayton. This 4-year course focuses on radiography and medical imaging, and students develop the skills to be registered radiographers, <http://bit.ly/1NmAMGA>
- **RMIT**, Bachelor of Applied Science (Medical Radiations), Bundoora. You can enrol in one of the following three streams- medical imaging, nuclear medicine, or radiation therapy, <http://bit.ly/1GuuORT>
- **CQUniversity**, Bachelor of Medical Sonography/ Graduate Diploma of Medical Sonography, Melbourne. This is the only undergraduate/graduate Medical Sonography course in Australia, <http://bit.ly/1FvexX0>

Key event - Medical Radiations Career Open Day, Peter MacCallum Cancer Centre, Sunday 25 August. You will be able to tour the departments, speak to staff, and speak directly to course advisers from universities. Limited places. For information and to register, go to <https://bit.ly/2YUemlY>

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Applications closing soon for Fine Arts and Music at the University of Melbourne

VTAC applications closing Saturday 31 August, 5pm:

- [Bachelor of Fine Arts \(Animation\)](#): selection tests will be sent to applicants in early September
 - [Bachelor of Fine Arts \(Dance\)](#): supplementary form including physical exam results from a physiotherapist also due by this date
 - [Bachelor of Fine Arts \(Film and TV\)](#): selection tests will be to applicants in early September
 - [Bachelor of Fine Arts \(Screenwriting\)](#): selection tests will be sent to applicants in early September
- Our other Fine Arts specialisations and Bachelor of Music specialisations have a later

closing date.

VTAC applications including supplementary application form closing Monday 30 September, 5pm:

- [Bachelor of Fine Arts \(Acting\)](#)
- [Bachelor of Fine Arts \(Design and Production\)](#)
- [Bachelor of Fine Arts \(Music Theatre\)](#)
- [Bachelor of Fine Arts \(Theatre\)](#)
- [Bachelor of Fine Arts \(Visual Arts\)](#)

VTAC applications including audition application form closing Monday 30 September, 5pm:

- [Bachelor of Music \(Music Performance, Composition, Musicology or Ethnomusicology\)](#)
- [Bachelor of Music \(Jazz and Improvisation\)](#)
- [Bachelor of Music \(Interactive Composition\)](#)

The how to apply page for each course in the links above have a step-by-step explanation of the application process. Students should ensure they read and understand the requirements as late applications will not be accepted.

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UPCOMING EVENTS

Indigenous Australian Engineering School (IAES)

From 12-18 January 2020, the Faculty of Engineering and Information Technologies at the University of Sydney will host the IAES, funded by Engineering Aid Australia. The IAES Program gives 25 Indigenous high school students from across Australia, who are entering years 10, 11 and 12 in 2019, the opportunity to come to Sydney and explore the possibilities of studying and working within various fields of engineering. The IAES Program is fully sponsored with all activities, accommodation, flights and meals covered by Engineering Aid Australia and the University of Sydney. The week-long program will involve site visits to key Sydney locations, curriculum exercises and participation in cultural activities. Further highlights include networking opportunities with engineering industry representatives and recreational activities on Sydney Harbour.

Application closing date: **18 October 2019**.

For more information - www.engineeringaid.org/programs/iaes-sydney/

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Nurse Camp

Murrumbidgee Local Health District are pleased to announce that applications for #nursecampMLHD are now open. #nursecampMLHD is an opportunity for Year 10 students interested in pursuing a career in nursing, to participate in a 3 day industry immersion opportunity.

Participants will experience 'a day in the life of a nurse' and learn practical and life skills of:

- Team work and communication
- Patient assessment
- Basic life support – resuscitation
- Injury and Wound Care
- Emergency First Aid Skills & much more!

Have you got what it takes?

Applications close **Friday 23rd August 2019 5pm** – online applications only.

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La Trobe University Open Day

It is an exciting time for prospective students to find their future degree with a large variety of information sessions being conducted, plenty of tours and demonstrations on offer throughout the day. Students can learn more about our Regional Benefits Program and Aspire Program and even submit their application on the spot.

Plan your day to win Go in the draw to win two tickets to the 2019 Toyota AFL Grand Final or *The Nutcracker* by The Australian Ballet. Simply register using the Open Day planner and check-in at Open Day for your chance to win: www.latrobe.edu.au/openday/win-at-open-day

Regional Travel Grants If you're in Year 11, Year 12 or non-school aged and from regional Victoria or interstate, the La Trobe Open Day Regional Travel Grant can subsidise your travel to and from any La

Trobe Open Day: www.latrobe.edu.au/openday/regional-travel-grant

Our remaining Open Day dates are as follows:

- Albury-Wodonga Campus | 18 August | 10am–2pm
- Sydney Campus | 22 August | 4pm – 7pm
- Bendigo Campus | 25 August | 10am–3pm

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Federation University Open Day

Federation University is proud to be rated the #1 University in Australia for Employability skills* and the #1 University in Victoria for Student Support.** Their purpose is to transform lives and enhance communities believing in the value they offer local students. Federation University's Open Day is only two weeks away and we are busy preparing to showcase our campuses to prospective students. Please find linked our [Year 12 VIP ticket offer](#) for Year 12 students. If Year 12 guests are required to travel over 130km to attend our Open Day we have a fuel voucher offer to assist with this cost (subject to demand and meeting eligibility criteria). Families are also able to take advantage of a free night of accommodation on campus. Conditions apply, please see our [website](#) for more details.

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Dates for your diary

AUGUST

- **20: Meet Melbourne Uni**, Bendigo, <https://bit.ly/2Oaa5Nb>
- **25: Medical Radiations Career Open Day**, Peter MacCallum Cancer Centre, <https://bit.ly/2YUemIY>
- **28 – 29: Inside Monash Seminars:** Monash University, Engineering (28), IT and Computer Science (29), <https://bit.ly/2ki2NYw>
- **30: Planning ahead, your US & UK application timeline**, Crimson Education, Hawthorn, <https://bit.ly/33f3GDX>

SEPTEMBER

- **17, 18: Advice Nights**, Swinburne University, Wantirna Campus (17), Hawthorn campus (18), Aviation (18), <https://bit.ly/2Kt0nAl>
- **22: Dookie Day**, University of Melbourne, Dookie campus. For students interested in studying agriculture, <https://bit.ly/2Ka80LX>
- **24 - 26: Fashion Camp**, Kangan Institute, Richmond, <https://bit.ly/2Oqv9iF>

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Open Days in August

Universities:

La Trobe University - <https://bit.ly/2HDNdi6>

- Mildura (14)
- Albury-Wodonga (18)
- Bendigo (25)

University of Melbourne - <https://bit.ly/2vl0pgx>

- Parkville (18)

Victoria University - <https://bit.ly/2lYeXkZ>

- Footscray (18)

CQUniversity - <https://bit.ly/2WkBy2k>

- Melbourne (18)

Deakin University - <https://bit.ly/1N0i0kr>

- Geelong (18)

- Melbourne (25)

Torrens University - <https://bit.ly/217pY0s>

- Melbourne (17)

Charles Sturt University - <https://bit.ly/2Wd5cWi>

- Albury-Wodonga (18)

Australian Catholic University - <https://bit.ly/2V6iy2h>

- Ballarat (25)

Federation University - <https://bit.ly/2bpachS>

- Ballarat, Berwick, Gippsland (25)

TAFEs and Independent Tertiary Institutions:

Billy Blue College of Design - <https://bit.ly/31BUt7T>

- Melbourne (17)

Marcus Oldham - <https://bit.ly/2HQJbow>

- Geelong (18)

Melbourne Polytechnic - <https://bit.ly/2iBUy5l>

- Preston (18)

Academy of Interactive Entertainment - <https://aie.edu.au/>

- Melbourne (18)

Footscray City Films - <https://bit.ly/2qGHhM8>

- Melbourne (20)

JMC Academy - <https://bit.ly/2MrE8PK>

- Melbourne (24)

Whitehouse Institute of Design - <https://bit.ly/2Z32O29>

- Melbourne (24)

Box Hill Institute - <https://bit.ly/2MZ0Kpg>

- Box Hill (25)

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