



Dates to Diarise in Term 1

- **Victorian Careers and Employment Expo** – 14 to 16 March 2024



Australian Government

Department of Education

Australian Signals Directorate (ASD)

The ASD is a vital member of Australia's national security community. We work across the full spectrum of operations required of contemporary signals intelligence and security agencies. This includes intelligence, cyber security and offensive cyber operations in support of the Australian Government and Australian Defence Force (ADF).

Since its earliest days, the ASD has taken on complex challenges to keep Australians secure, and the ingenuity of its workforce is vital to its success. *Today, we keep rising to meet the challenges before us and find solutions to Australia's complex problems.* The work produces meaningful, observable results as the ASD contributes to the safety and well-being of all Australians.

The ASD offers a range of career opportunities - [starting my career](#), from cadetships, to apprenticeships, as well as graduate positions once an applicant has graduated tertiary study. Of importance, is to recognise that jobs in the ASD are offered in all disciplines, from *accounting and finance to strategic and international policy*, and everything in-between.

Students keen on finding out more are encouraged to browse [Australian Signals Directorate \(ASD\)](#).



News from Federation University

➤ **Dual Electrical Engineering Course at Berwick Campus**

Get paid and gain workplace experience through an apprenticeship while completing a Certificate III in Electrotechnology Electrician and a Bachelor of Engineering (Electrical and Information Engineering) in this unique career opportunity.

Federation University is partnering with the Victorian Government, Ai Group Centre for Education & Training and NECA Education & Careers to create these dual electrical qualifications.

This dual qualification has been designed to address a gap in the skills market identified by industry. Modern control systems in sophisticated industry applications have outpaced the current trade knowledge, but the engineering staff who understand the systems are unlicensed to physically work on them.

The outcome of this program will be a certified A Grade electrician with advanced STEM knowledge who is able to design, install, commission, and maintain these advanced systems.

The Certificate III in Electrotechnology – Electrician will be delivered by NECA Education & Careers based out of their new state of the art Dandenong Campus. The Bachelor of Engineering (Electrical and Information Engineering)(Honours) will be delivered by Federation University with an option to attend either the Ballarat or Berwick campus.

Find out more at [Dual Electrical Qualification](#).

➤ **New Courses at Berwick Campus in 2024**

The following courses are *new* at the Berwick Campus from 2024 –

- [Bachelor of Engineering \(Civil\) \(Honours\)](#)
- [Bachelor of Engineering \(Electrical and Information Engineering\) \(Honours\)](#)
- [Bachelor of Engineering \(Mechanical\) \(Honours\)](#)
- [Bachelor of Speech Pathology \(Honours\)](#)



TUCKWELL
SCHOLARSHIP

Tuckwell Scholarship for 2025

Australian National University (ANU) launched the ***Tuckwell Scholarship Program*** in 2013. *The Tuckwell Scholarship Program at the ANU is the most transformational undergraduate scholarship program in Australia.* A Tuckwell is not just about a students' intellect. It is also about their desire and determination to use their natural abilities to realise their full potential so that they can make a difference in the world. All up one could say, **this is no ordinary scholarship!**

Scholarships are awarded based on four criteria:

- academic potential and achievements to date;
- other significant achievements to date, of any type;
- demonstration of the [Attributes of a Tuckwell Scholar](#); and
- a [desire to eventually give back to Australia](#).

Tuckwell Scholar students receive:

- \$26,000 per annum (2024 rate) (increasing with inflation) for each year of the length of their undergraduate degree, to cover on-campus residential costs, books, and general living expenses
- from 2024, a one-off payment of \$1,500 relocation grant for first year Scholars.
- priority access guaranteed to ANU-approved student accommodation

- travel allowances to assist with the move to Canberra and to support two annual return journeys (e.g. airfares) between the Scholar's home and the University for each year of their degree.
- an allowance to help cover the transport costs for their parents to attend [Commencement Weekend](#) at the start of the program, and
- an [ANU Sports Centre membership](#) for the length of their degree.

Applications will open in March 2024.

For more information browse [Tuckwell Scholarship](#).



What does a Radiation Therapist do?

The [Good Universities Guide](#) states that Radiation Therapists *design, and administer radiation treatment to cancer patients, and provide related care to patients in conjunction with radiation oncologists or other medical specialists*. The [Health Times](#) website indicates that a Radiation Therapist is *also responsible for collecting relevant patient information and using this information to plan a patient's treatment. A radiation therapist will work under the guidance of a Radiation Oncologist, in a team of health professionals who care for and treat cancer patients*.

Radiation therapists are responsible for supporting the patient throughout their treatment. They must have compassion and strong interpersonal skills. Part of their role is to listen to the emotional concerns and anxieties of the patient and refer them appropriately if needed. The radiation therapist will also assess the patient's reaction to treatment, providing advice on the side effects of treatment and methods of alleviating these. Radiation therapists often develop close relationships with their patients, as they usually see them five days per week for between three and seven weeks.

To become a Radiation Therapist, students have to study radiation therapy at university. Studies in Radiation Therapy in Victoria are offered by [Monash University](#) and [RMIT University](#), and Radiation Science units are offered in the Medical Imaging degree offered by [Deakin University](#).



What does a Neuroscientist do?

According to the [Medical News Today](#) website *neuroscientists focus on the brain and its impact on behaviour and cognitive functions, or how people think*. Neuroscience is an interdisciplinary science that works closely with other disciplines, such as mathematics, linguistics, engineering, computer science, chemistry, philosophy, psychology, and medicine. Neuroscientists carry out tests, using various types of technology to help them to diagnose

conditions, and they usually specialise in specific areas. These include study of the way the nervous system grows and develops; the way the brain deals with thought, language, memory, and its ability to solve problems; or molecules that help with the way the nervous systems work.

To become a neuroscientist, students generally have to complete a science degree - such as a *Bachelor of Science* or *Bachelor of Biomedicine* with a major in [Neuroscience at the University of Melbourne](#), for example. Completion of a postgraduate qualification is regarded as of great value - such as Graduate Diploma in Clinical Neuropsychology, Master of Science in Medicine (Clinical Neurophysiology) and Master of Neuroscience. The following link is very interesting to browse - [Master Programs in Neuroscience](#).



What is Land Surveying?

*Interested in Geography, Maths, Science, IT and/or the outdoors? Looking for a job that won't tie you to a desk? Surveying is the measurement and mapping of our surrounding environment using mathematics and specialised technology. Land surveyors are involved with a diverse variety of projects from land subdivision to tunnel building and major construction. Importantly though, **there is much more to surveying than taking measurements outdoors and then analysing them back in the office.** Surveyors are often the first people on site during any construction process; they are the guardians of property law, and the creators of land titles. They are also the ones who can sign off on the position of new title boundaries. In all, surveyors are an integral part of the process in a wide variety of scenarios.*

Note: Surveying courses are offered at Federation University, RMIT, and Victoria University.

Students who wish to find out what surveying is, what surveyors do, where to study, and what it takes, might like to browse [A Life Without Limits](#).



Bachelor of Artificial Intelligence

Gain the skills necessary to design, develop, and evolve software solutions that takes advantage of the latest advances in artificial intelligence.

Deakin's [Bachelor of Artificial Intelligence](#) equips students with the knowledge and skills to *design, develop and evolve software solutions* that harness the latest advances in artificial intelligence (AI). Students get hands-on experience developing AI-driven software solutions with the support of academics who are leaders in this emerging field. Deakin's world-class research in AI feeds directly into its classrooms, ensuring what students learn is at the cutting edge of industry expectations and capabilities.

With a minimum of 100 hours of industry experience, students will develop in-demand skills working side-by-side with experienced AI specialists.



MUSIC PRODUCTION COURSES IN VICTORIA IN 2024



There are numerous courses on offer in Victoria for students who wish to study music production courses. A selection of courses is listed below but for a comprehensive list of all similar courses on offer – including double-degrees – visit [VTAC](https://www.vtac.vic.edu.au).

UNIVERSITY	MAJOR STUDIES IN 2024	SELECTION CRITERIA
AIM (M) – Melbourne	Music (Creative Technology – Audio): Audio Technology, Digital Technology (DAW Skills)	Selection: Folio and Folio Presentation, Audition (M)
	Composition and Music Production: Composition, Digital Technology (DAW Skills), Music Production.	Selection: Portfolio and Folio, Interview (M)
BOX HILL INSTITUTE (B) – Box Hill	Music Industry (Audio Production): Live Sound, Mastering, Mixing, Post Production, Sound for Media, Studio Recording.	Selection: Portfolio and Folio Presentation, Interview (B)
	Music Industry (Music Production): Artistic direction, Creative collaborations, DJ'ing and performing with technology, Immersive and interactive music production, Music production technology and aesthetics, Releasing music, Song production.	Selection: Portfolio and Folio Presentation, Interview (B)
COLLARTS (C) – Collingwood	Music Production: Mixing & Studio Foundations; Ensemble Rehearsal & Direction; Composing & Sequencing; The Fundamentals of Sound & Music; Solo Recording & Working with Musicians; Technology in Performance; Creative Software Practice; Microphone & Music: Theory & History; Sound Design; Music for Image; Advanced Critical Listening; Applied Digital Marketing; Mastering; Remixing & Arranging and many more.	Selection: Interview (C)
JMC ACADEMY (M) – Melbourne	Audio Engineering and Sound Production: Acoustic Design, Acoustics Theory, Audio, Audio + Sound Theory, Audio Engineering, Audio Industry, Audio Post Production, Audio System Design, Electronic Music, Electronics, Foley, History of Western Recording, Live Sound, Music Business, Music History, Music Production, Music Production Analysis, Musical Instrument Digital Interface (MIDI), Recording, Research Project, Sound Art, Sound Design, Sound Recording, Spatial Recording, Studio Recording, TV, Radio + Film Audio.	Selection: Interview (M)
MELBOURNE POLYTECHNIC (F) – Fairfield	Music Production: Ableton Live, Audio synthesis, Digital audio workstations, Electronic music production, Music analysis, Music composition and arrangement, Music industry studies, Pro Tools 101, Project management, Sound editing and mixing, Studio recording and production techniques, Technology in performance.	Selection: Audition, Interview (F)
NCAT (P) – Preston	Music Industry: Music Business, Music Industry, Music Theory, Performance, Recording, Sound Production.	Selection: Application form, Interview (P)
RMIT (C) – City	Music Industry Sound Production: Acoustics, Audio mastering, Audio production technology, Broadcast sound, Computer music production systems, Dialogue editing, Digital audio, Digital media, Digital technology, Electronic music, Film and television sound production, Film music, Live sound, Music industry, Music technology, Radio production, Sound engineering, Sound mixing, Sound production, Sound recording, Surround sound applications.	Selection: Selection Task and Interview (C)
	Music Industry: DJing, Electronic music, Music, Music business, Music culture, Music history, Music industry, Music media, Music performance, Music production, Music promotion, Music technology, Music video, Popular music, Sound design, World music.	Selection: ATAR: 68.10 (C)
SAE (M) – Melbourne	Music: Creative Musicianship, Electronic Music Production, Music Industry and Business, Songwriting and Music Production.	Selection: Portfolio, Folio Presentation, Interview (M)