

## CAREER NEWSLETTER

Week 2 - Term 2, 2017.

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### FOCUS ON PHYSICS CAREERS

**Love physics?** There are many amazing occupations suited to students who love physics. The following are three examples:

- **Radiation Oncology Medical Physicists**: are highly specialised professionals “who create, implement and monitor the procedures which allow the best treatment using radiation, taking into account the protection and safety of patients and others involved in the treatment process. In their role, they are consulted by radiation oncologists and radiation therapists to provide advice as to the best use of medical radiation for treatment”.
- **Geophysicists**: study the structure and composition of zones below the surface of the earth by taking measurements using seismic, gravity, magnetic and electrical data collection methods. Geophysicists can spend their time outdoors using advanced technologies to study features of the earth, and spend time indoors using computing technology to develop and analyse mapping, calculations and modeling. Many Geophysicists find work in the mining and petroleum industries.
- **Physicists**: “Physicists study the behaviour of the physical world at the most basic level and find practical ways to apply new knowledge gained from their research in areas of science and technology. Physicists are usually identified within three broad roles: theoretical physicists, who develop theories or models of how particular aspects of the world work, experimental physicists, who test these theories, determining their limits and suggesting new approaches to them, and applied physicists, who apply these findings in practical settings, such as within industry and through the introduction of new technology”.

#### Other resources and areas of Science to investigate:

- **Careers with STEM**: you can research the science, technology, engineering and maths careers that will be in demand in the future, <https://careerswithstem.com/>
- **Australian Institute of Physics**: learn about the different physics groups in Australia, including groups for Atomic and Molecular Physics, Nuclear and Particle Physics, and Solar Terrestrial and Space Physics, <http://aip.org.au/topical-groups/>
- **Science news**: Be inspired by the latest stories featured on RiAUS – Australia’s Science Channel. Some of the topics covered this week include:
  - Five Australian inventors whose innovative designs revolutionised the first World War
  - Gluten free diets
  - Superbugs in spaceAccess the stories at [Australia’s Science Channel](#).
- **Careers with STEM magazines**: Science, Technology, Engineering and Maths (STEM) will underpin 75% of the fastest growing jobs in the future. Refraction media has developed the following magazines that students can order or download online: Careers with Science, Careers with Science & Health,

Careers with Engineering, Careers with Maths, and Careers with Code. You can access the magazines at this link - <https://careerswithstem.com/read-it-here/>

- **Science, Taking You Places:** This is a fantastic booklet developed by the Primary Industry Centre for Science Education. Students can explore careers in primary industries such as agriculture, food security, agronomy etc., <http://bit.ly/1S6hsh0>

Mr. S Martin  
(Career Adviser)

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## VOCATIONAL AND HIGHER EDUCATION NEWS

### Careers in Sport

At BCA National Sports College trainers will aim to prepare you with the skills in diet, coaching, programming, business and leadership that you'll need for a management level career in sport, outdoor recreation or fitness. Visit [bcanational.edu.au/dipsportsdev](http://bcanational.edu.au/dipsportsdev) for more information. Max tuition fee \$13,000.

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### Worldwide Med - a free resource for aspiring medical students

Recently launched by a medical graduate from The University of Sydney, Worldwide Med is an online platform that aims to help prospective medical students make better decisions about studying Medicine in Australia and around the world. <http://worldwidemed.co> Please feel free to make use of it and do get in touch if you have any questions or feedback at [hello@worldwidemed.co](mailto:hello@worldwidemed.co)

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### TAFE to university at La Trobe University

Students interested in studying nursing, early childhood education or social work at La Trobe University, can undertake a TAFE pathway at one of their partner institutes. Students who receive an offer for the eligible TAFE course will also receive an offer to the La Trobe University Bachelor degree. The TAFE and university courses are listed below.

- Diploma of Nursing > Bachelor of Nursing (Pre Registration)
- Diploma of Early Childhood Education and Care > Bachelor of Early Learning
- Diploma of Community Services > Bachelor of Human Services/Master of Social Work

To check if a TAFE near you is part of this dual enrolment scheme, go to

[www.latrobe.edu.au/study/how-to-apply/your-options/diploma-or-tafe-pathway](http://www.latrobe.edu.au/study/how-to-apply/your-options/diploma-or-tafe-pathway)

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### **Interested in robotics?**

Ricardo Cannizzaro completed the Bachelor of Engineering (Robotics and Mechatronics) at Swinburne University. In 2015, he undertook work experience as part of his degree at the Defence Science and Technology Group. He then gained employment with the company as a Robotics Specialist. For information about the work experience Ricardo undertook and the university course, go to <http://knowing.swinburne.edu.au/post/158918034264/robotics-on-the-frontline>

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## **UPCOMING EVENTS**

### **Inside Monash Seminars**

Monash University are running a series of after school information sessions about courses areas in May (e.g., teaching). Prospective students are encouraged to attend. You will be able to learn about courses, prerequisites, graduate outcomes, and you will be able to speak to lecturers and current students. For a list of course areas, dates, and venues go to [www.monash.edu/inside-monash](http://www.monash.edu/inside-monash)

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### **Explore Deakin courses and win**

Deakin University has developed a course and career search tool called Deakin Explore. You can search for courses and careers using a variety of search terms and the online tool matches courses to careers and vice versa. Students who create an account and use the software will go into the draw to win a \$100 VISA gift card. For more information and to begin searching, go to <http://explore.deakin.edu.au/>

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### **Undergraduate Medicine at UNSW**

Applications for the 2018 Undergraduate Medicine Program will open on Wednesday 3 May. Students will need to do the following:

- Apply directly to UNSW for the course between 3 May – 30 September, <https://med.unsw.edu.au/med-how-to-apply>
- Apply for the course via the Universities Admissions Centre (UAC) between 2 August – 29 September, [www.uac.edu.au](http://www.uac.edu.au)
- Register for the Undergraduate Medical Admissions Test (UMAT) by 2 June and sit the test on 26 July, <https://umat.acer.edu.au/>

To watch the Year 12 UNSW Medicine Information Evening video, [click here](#).

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### **Victorian Indigenous Engineering Winter School**

Indigenous Australian students in Years 11 and 12 are invited to apply for this fantastic program. Between 1 – 7 July, students will explore engineering at four Melbourne based universities, meet Indigenous Engineering professionals, and participate in engineering site visits. For information and to apply by Friday 2 June, go to [www.eng.unimelb.edu.au/engage/indigenous/views](http://www.eng.unimelb.edu.au/engage/indigenous/views)

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### **Melbourne Knowledge Week 2017**

This exciting week runs from 1 - 7 May and has more than 60 horizon-expanding events where you can explore the innovation, creativity and technology shaping our future. This week will suit students interested in science and technology courses and careers, <http://mkw.melbourne.vic.gov.au>

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## **SCHOLARSHIPS**

See the following websites for information regarding tertiary scholarships:

[www.vtac.edu.au/scholarships.html](http://www.vtac.edu.au/scholarships.html)

<https://blog.vtac.edu.au/category/scholarships/>

[www.studymelbourne.vic.gov.au/scholarships](http://www.studymelbourne.vic.gov.au/scholarships)

[www.youthcentral.vic.gov.au/government-info-assistance/youth-programs/scholarships-philanthropic-programs](http://www.youthcentral.vic.gov.au/government-info-assistance/youth-programs/scholarships-philanthropic-programs)

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## CALENDAR OF EVENTS

### APRIL

**29: Open Day**, Southern School of Natural Therapies, Melbourne, [www.ssnt.edu.au/](http://www.ssnt.edu.au/)

**29: Expo**, Australian College of Nursing & Health Expo, Melbourne, <http://bit.ly/2nXwWhv>

**29: Werribee Open Day**, University of Melbourne, Agriculture and Veterinary Science courses, <http://bit.ly/2oWqpSY>

### MAY

**1 – 7: Melbourne Knowledge Week**, <http://bit.ly/2ptiVbm>

**2: Information Evening**, SAE Qantm, Melbourne, <http://bit.ly/2nXjPN7>

**3 - 25: Inside Monash Seminars:** Teaching (3), Music (4), IT (5), Teaching (10), Medicine & Biomedicine (11), Engineering (12), Science Advanced - Research and Global Challenges (17), Law (18), Health Sciences (19), Biomedicine Sciences, Radiography, and Nutrition and Dietetics (25), <http://bit.ly/1Scshkl>

**4 - 7: VCE and Careers Expo**, Caulfield, [www.vceandcareers.com.au/](http://www.vceandcareers.com.au/)

**5: Open Day**, University of New England, Armidale, <http://bit.ly/2oGZMRS>

**9 - 16: Meet Melbourne University**, Warrnambool (9), Hamilton (10), Sale (15), Warragul (16), <http://bit.ly/2pKUXET>

**13: Open Day**, JMC Academy, Melbourne, <http://bit.ly/2pvHAJk>

**13: Open Day**, Collarts, Melbourne, <http://bit.ly/2pM730A>

**16, 17, 23: Monash Information Evening**, Bendigo (16), Shepparton (17), Warragul (23) <http://bit.ly/2pt8nsT>