

Weekly Career News

Term 2

Tuesday 22 April 2018

FOCUS ON PHYSICS CAREERS

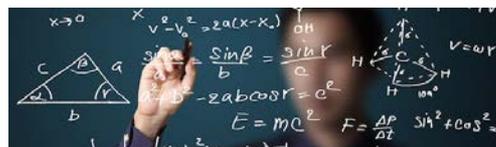
Love physics? There are many amazing occupations suited to students who love physics. The following are three examples:

- **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”. For information, go to <http://tinyurl.com/l32v8hs>
- **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. For more information, go to <http://bit.ly/2p7svOE>
- **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”, <http://bit.ly/2oCsEYb>

FOCUS ON PHYSICS CAREERS

Key websites

- **Myfuture:** create an account > click on Career Bullseyes > click on Physics > click on the occupations that sound interesting to you to learn about them, www.myfuture.edu.au/
- **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://bit.ly/2pr5NDO>



FOCUS ON CHEMISTRY CAREERS

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

- **Analytical Chemist:** “Analytical Chemists use a diverse range of methods to investigate the chemical nature of substances. This is done to identify and understand the substance and how it behaves in different conditions. In the pharmaceutical industry, Analytical Chemists are involved in the whole process, from drug discovery to market, studying the physical or chemical properties of drug substances and formulations to determining the quality and stability of drug products to ensure the safety of the drug”, <https://bit.ly/2DFxyLv>

FOCUS ON CHEMISTRY CAREERS

- **Meet Amy Heffernan:** she is an Analytical Chemist who is using nematode worms to better understand the progression of human neurological diseases such as dementia, <https://bit.ly/2AbISc6>
- **Pharmacist:** “Pharmacy is about promoting health awareness and contributing to the betterment of the community. Pharmacists may: prepare or supervise the dispensing of medicines, ointments and tablets; advise patients on how their medicines are to be taken or used in the safest and most effective way in the treatment of common ailments; work in the research and development of medicines and other health-related products; and be involved in the management of pharmaceutical companies etc.”, <https://bit.ly/2K6iECF>
- **Dietitian:** “Dietitians understand how your body works and how food and drinks help nourish both healthy individuals and those with medical conditions that are affected by or treated with nutrition. They use their knowledge and skills in a range of workplaces from client-facing roles in clinics and hospitals, to foodservice roles in which they impact the nutrition of residents and inpatients, to roles where they influence the health of the population by impacting food policy and the food supply such as in government public health roles and food companies”, <https://bit.ly/2HkJGEv>

Key websites

- **Myfuture:** create an account > click on Career Bullseyes > click on Chemistry > click on the occupations that sound interesting to you to learn about them, www.myfuture.edu.au/
- **Careers with STEM:** you can research the science, technology, engineering and maths careers that will be in demand in the future, <https://careerswithstem.com/>
- **Royal Australian Chemical Institute:** learn about the different chemist groups in Australia, read about current chemistry news, and search the accredited university courses, <https://www.raci.org.au/>



VOCATIONAL & HIGHER EDUCATION NEWS

Support for elite athletes and performers at university: several universities offer support programs for students who are elite athletes, coaches of athletes and performers (i.e., acting, music, film). Support may include financial, academic, and flexible study arrangements. The following are examples of three universities who offer the program:

- Federation University, <http://bit.ly/2o7EBIK>
- Australian Catholic University, <http://bit.ly/2o12kKd>
- University of Melbourne, <http://bit.ly/2bXqxMh>

Updates from Australian Catholic University (ACU):

- **Work Integrated Learning (WIL):** If you are considering studying a course at ACU that has a WIL component, you can learn about the program at the following link - <http://bit.ly/2ojV0eK>
- **New Bachelor of High Performance Sport:** From 2019, ACU will offer this new degree, which will focus on a) athlete preparation, coaching, training and performance, (b) industry-relevant knowledge, skills and accreditation, and (c) work-integrated learning opportunities, <https://bit.ly/2HGmxQd>
- **Passion for Business Early Entry program:** Students can receive an early guaranteed offer for one of seven eligible single or combined Bachelor degrees in areas such as business, IT, and commerce. You must be studying a business related subject at school. Applications open on the 1st of May for 2019 entry, <http://bit.ly/2beXyl2>
- **Passion for Law Early Entry program:** Students can receive an early guaranteed offer for the Bachelor of Law combined with one of eight Bachelor degrees such as Global Studies, Commerce, Arts, Psychological Science and Biomedical Science. You must receive an ATAR of at least 78 and submit an essay. Applications open on the 1st of May for 2019 entry, <http://bit.ly/2bp4UUM>

VOCATIONAL & HIGHER EDUCATION NEWS

La Trobe University Young Writers' Award: Year 10 Victorian secondary school students and guest border schools are invited to get creative and enter an original short story or poem (800 – 1000 words) in this year's competition. The theme for submissions is 'one year later' and there are great cash prizes available for first (\$500), second (\$250) and third (\$125) place. Submissions open from Monday 16 July 2018, <https://bit.ly/2vL9IVN>

The booming industries in Australia: Recently Seek published an article on five industries that 'boomed' in the past 12 months. The industries were:

- Mining, resources and energy
- Trades and Services
- Healthcare and Medical
- Engineering
- Science and Technology

To read detailed analysis on each industry, including the occupations that were in demand, go to <https://bit.ly/2HTOa6c>

Interested in studying education in the future?

Monash University has just completed building works on their new Learning and Teaching building at the Clayton campus. You can take a virtual tour of the building at this link - <https://bit.ly/2Hklr8i>

At the undergraduate level, the Monash Faculty of Education offers the following courses at the Clayton campus:

- Bachelor of Education (Honours) in: Primary and Secondary Education and Primary and Secondary Inclusive Education
- Primary Education double degrees in Arts, Business, Commerce, Fine Art, Information Technology, Music and Science
- Secondary Education double degree in Arts, Business, Commerce, Fine Art, Information Technology, Music and Science.

Course information: <https://bit.ly/2CtIV8T>



UPCOMING EVENTS

VCE and Careers Expo: This annual event enables senior school students and their families to participate in a diverse range of seminars related to VCE subjects, gap year opportunities, vocational and higher education courses, career pathways and study skills. A huge number of exhibitors will be in attendance, and over 150 seminars will be offered. Cost is \$10 per student. The event is being held at Caulfield Racecourse between Thursday 3 to Sunday 6 May.

Examples of seminars include:

- Careers in hotel management, events and tourism. The Hotel School Melbourne
- Careers in the sport industry, Federation University
- Gap year with Camp America
- Careers in game design, 3D animation and VFX, Academy of Interactive Entertainment
- Australian Defence Force: the journey starts now
- Careers in nursing, community services & health, Health Skills Australia
- Working in Medicine, MedEntry
- A career in real estate: Real Estate Institute of Victoria

To find out more and to order tickets, go to www.vceandcareers.com.au

Melbourne Knowledge Week 2018: This exciting week runs from Monday 7 to Sunday 13 May and a huge number of horizon-expanding events will be offered 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. Examples of workshops are as follows:

- From Block Play to STEM Careers
- Imagining 2040
- The Future of Work
- Redesign our City
- Harnessing Children's Empathy through Digital Art
- Microscopic Metropolis: The Dirt on Food
- Immersive Science: Virtual Reality Meets Data

For information on dates, events, venues, and to book tickets, go to <https://bit.ly/2HDVyF0>

UPCOMING EVENTS

Explore creative careers: SAE Qantm is a private college that has campuses all around the world. They offer vocational and higher education courses in:

- Animation
- Film
- Sound Production & Audio Engineering
- Games Development
- Graphic, Web and Mobile Design
- Interactive Technologies
- Photography

An information evening will be held on Thursday 10 May at the Melbourne campus. For information and to register, go to <https://bit.ly/2arYzpb>

Inside Monash Seminars: Monash University will be running a series of free 90-minute information seminars that aim to showcase different courses and faculties at the university. Prospective students and their families are welcome to attend. The following seminars are running:

April

- 26: Architecture, Business, Architecture

May

- 8: Arts, Criminology & Global Studies.
- 8: Pharmacy & Pharmaceutical Sciences.
- 9: Public Health & Health Science
- 10: Advanced Science – Global Challenges and Research
- 16: Biomedical Science, Radiography, Radiation Science, and Nutrition
- 17 & 24: Education
- 17: Information Technology
- 22: Occupational Therapy, Physiotherapy, and Paramedicine
- 24: Engineering

For information and to register for the sessions, go to <http://bit.ly/2FeDiBF>

Victorian Indigenous Engineering Winter School: Indigenous Australian students in Years 11 and 12 are invited to apply for this fantastic program. Between 7 – 14 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 25 May, go to <http://bit.ly/1r9c5oK>

UPCOMING EVENTS

University of Melbourne VCE Winter School: This program is for students in Year 10 – 12 studying at least one of the following VCE subjects: Literature, Italian, French, Indonesian or History (Australian History or Revolutions). The School will run during the mid year holidays. For details, dates, and to register, go to <https://bit.ly/2qPcDT0>

APRIL

- **24: Meet Melbourne**, Melbourne University Geelong, <http://bit.ly/2lzP67x>
- **26: Inside Monash Seminars**, Monash University, Architecture, Business, Science, <http://bit.ly/2ki2NYw>
- **24: Information Session**, Macleay College, Melbourne, <http://bit.ly/2p5jw1g>

MAY

- **1 - 9: Meet Melbourne**, Melbourne University regional tour, <http://bit.ly/2lzP67x>
- **2: Discovery Day**, The Hotel School Melbourne, <https://bit.ly/2IXGKhu>
- **3 – 6: VCE and Careers Expo**, Melbourne, <http://bit.ly/1osfRrt>
- **5: Open Day**, JMC Academy, Melbourne, <http://bit.ly/2nRkDB4>
- **8 – 24: Inside Monash Seminars**, Monash University, <http://bit.ly/2ki2NYw>
- **10: Information Evening**, SAE Institute, Melbourne, <https://bit.ly/2arYzpb>
- **11: Open Day**, University of New England, Armidale, <https://bit.ly/2qQVF6E>
- **12: Open Day**, Collarts, Melbourne, <http://bit.ly/2oyTR03>
- **15, 16, 23: Monash Information Evening**, Bendigo (15), Shepparton (16), Warragul (23) <https://bit.ly/2pt8nsT>
- **19: Open Day**, Academy of Interactive Entertainment, Melbourne, <https://bit.ly/1hsNG8q>