

# THE CONCOPHILLIPS **SCIENCE** **EXPERIENCE**



A nationwide STEM outreach program held in Universities and tertiary institutes across Australia

# Australian Capital Territory

**AUSTRALIAN NATIONAL  
UNIVERSITY, CANBERRA**

25 - 27 SEPT 2019

Explore the forensic techniques of DNA fingerprinting, fly model rockets, stargaze the night sky, learn about geological mapping and take a tour of the Tsunami Early Warning Centre. Measure gamma-ray radioactivity, tour a particle accelerator, design a self-drive robotic car, test sustainable water filters and other cutting edge science activities.

# Tasmania

**UNIVERSITY OF TASMANIA,  
CRADLE COAST  
LAUNCESTON  
HOBART**

26-27 NOV 2019  
3-5 DEC 2019  
11-13 DEC 2019

You've got three days to change the world! Scientists will be the ones to solve the biggest challenges our planet faces. Over three days you will perform experiments in laboratories, attend inspirational lectures, tour facilities and experience university life. Be challenged to extend yourself, share your ideas with students from different schools, work with scientists on fascinating hands-on projects and expand your ideas of how science and technology can help you to change the world!



# Northern Territory

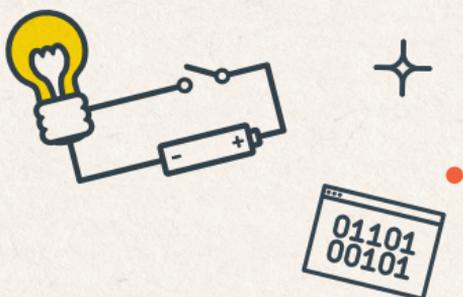


**CHARLES DARWIN UNIVERSITY,  
CASUARINA CAMPUS**

15-17 OCT 2019

Activities in climate, energy, water and food. Exercises and sports science. Pharmacy, primary industries, IT, allied health, water quality, Indigenous land management and sustainable use of wildlife, spatial science and biodiversity. Engineering, as well as information and technology.





## New South Wales

### MACQUARIE UNIVERSITY, SYDNEY

20-22 JAN 2020

Discover 3D printing and a virtual reality during our science expo, meet passionate scientists at our career speed dating, participate in a chemistry and physics magic show, learn more about our solar system and the world beyond earth, explore the world of Indigenous science and much much more!

### UNIVERSITY OF NEW ENGLAND, ARMIDALE

14-16 JAN 2020

Practical sessions in chemistry, precision agriculture, immunobiology, coding, meat and animal science, insect ecology, DNA and forensic techniques and soil science. As part of the program you will get a rare glimpse into the workings of our precision agriculture research group at the University's SMART farm at Kirby, one of UNE's rural properties. Professional scientists will be on board for a career panel and discussion to help you clarify your thoughts on science at a University level and into the future.

### UNIVERSITY OF SYDNEY, SYDNEY

15-17 JAN 2020

Grab your keep cups, your canvas bags and tree planting kits - we are on a mission! Become climate change scientists for three days by learning about current global challenges we face and the technologies in place that enact real change. Each day will feature interactive labs and workshops which will detail a global challenge, what is currently being done about it, and together perform one positive action to combat the challenge. From biology to psychology to mathematics to chemistry... all our scientists are getting their hands dirty to save the world!

### UNIVERSITY OF TECHNOLOGY, SYDNEY

14-16 OCT 2019

Various hands-on and fun science, maths, and technology activities. Explore some of the hottest topics in forensic science, physics, microbiology, and mathematical modelling.

# Queensland

**GRIFFITH UNIVERSITY,  
GOLD COAST**

2 - 4 JULY 2019

Designed to provide students who have an interest in science with an opportunity to engage in a wide range of fascinating science activities under the guidance of scientists who love their work.

**QUEENSLAND UNIVERSITY OF  
TECHNOLOGY, GARDENS POINT  
UNIVERSITY OF QUEENSLAND,  
ST LUCIA GRIFFITH UNIVERSITY,  
NATHAN**

21 - 24 JAN 2020

Treble your science experience by attending three of the largest universities in Queensland during the four days. Visit QUT, UQ and Griffith-Nathan. You will tour scientific facilities, hear from some of Queensland's leading scientists, participate in hands-on workshops and explore science based careers. Areas covered include forensic and biological science, physics, mathematics, astronomy, environmental sciences and engineering.

**UNIVERSITY OF QUEENSLAND**

22 - 24 JAN 2020

Invention workshops; disciplines including maths, physics, genetics, marine science, neuroscience, health and safety science, agriculture, nanotechnology.

**UNIVERSITY OF SOUTHERN  
QUEENSLAND, TOOWOOMBA**

24 - 26 SEPT 2019

The program is designed to engage students who are interested in science, engineering and technology with the opportunity to gain knowledge about careers and participate in a wide range of hands on activities, under the guidance of experts from USQ and the Department of Agriculture and Forestry (DAF).

USQ's program aims to offer a wide range of activities such as: Biomedical Science, Agricultural Science, Food Science, Engineering, Chemistry, Biology and Physics.





**CQUNIVERSITY, GLADSTONE MARINA**

15 - 17 OCT 2019

CQUniversity Gladstone Marina campus is in the heart of Gladstone Harbour and the Southern end of the Great Barrier Reef. Students will participate in innovative STEM experiences, including technology, robots, immersive marine science and sessions in the state-of-the-art Australia Pacific LNG ConocoPhillips STEM Central facility.

**CQUNIVERSITY, ROCKHAMPTON**

25 - 27 JUN 2019

Rotational sessions for the two days, including a day with an agricultural focus on research and technology. Third day students solve a real world problem with the information and experience they have had over the previous two days. Areas: Chemistry, Engineering, Technology, Agricultural Science.



# Western Australia



## CURTIN UNIVERSITY, PERTH

10 - 13 DEC 2019

Four days of engaging, hands-on science and engineering lab sessions, expert speaker presentations, information on studying at university and careers in science and engineering. Explore the fields of agriculture and environment, health and medical science, physical sciences and mathematics, computing and data sciences, robotics and engineering.

## EDITH COWAN UNIVERSITY, JOONDALUP

14 - 17 JAN 2020

Our program will enlighten students to the fascinating world of marine biology and environmental science, engineering with motorsport and robotics, biomechanics and sport analysis, medical science, physics, chemistry, math and computer programming. Our super friendly team will ensure you have loads of fun, enjoying a range of social activities, alongside opening your minds to the endless opportunities of future study and careers in STEM.

## EDITH COWAN UNIVERSITY, BUNBURY

3 - 5 DEC 2019

Our program will deliver hands-on workshops for students to explore disciplines such as conservation and wildlife biology, environmental science, medical science, engineering, physics, chemistry, math and technology. We will have loads of fun, enjoying a range of social activities, alongside opening your minds to the endless opportunities of future study and careers in STEM.

## THE UNIVERSITY OF WESTERN AUSTRALIA, PERTH

14 - 16 JAN 2020

Explore the world of science, technology, engineering and maths through a series of hands-on workshops, laboratory experiments and interactive presentations. Experience what it's like to be a university student, and discover the rich variety of careers that can come from having a degree in science or engineering. Interact with our expert staff and student leaders as they help you to develop your passion and explore the amazing possibilities of science at UWA.

## MURDOCH UNIVERSITY, PERTH

16 - 19 DEC 2019

Engage in interactive sessions, workshops, lectures and games. Experience the fields of Physics, Chemistry, Nano Chemistry, Information technology, Atmospheric Science, Mathematics, Robotics and Coding, Biochemistry and System Biology, Forensic and Agricultural Science, Marine Biology, Ecology and Wildlife Biology.

# South Australia

## UNIVERSITY OF ADELAIDE, ADELAIDE

10 - 12 DEC 2019

Discover the diverse and amazing career opportunities in both engineering and science whilst undertaking a wide range of hands-on activities over three fun-filled days. Experience interactive workshops in Chemistry, Physics, Biology, Food Science, Agriculture, Engineering and many more. Come see how much fun STEM can be.

## FLINDERS UNIVERSITY, ADELAIDE

4 - 6 DEC 2019

Flinders University welcomes ConocoPhillips Science Experience students to three days of interactive, fun activities on campus. The program consists of hands-on workshops in our labs, thought-provoking lectures by academic staff as well as a fun activities such as quizzes and competitions. Regional student groups have the opportunity to stay on campus over the three days.

## UNIVERSITY OF SOUTH AUSTRALIA

(two programs offered)

1 - 3 OCT 2019  
26 - 28 NOV 2019

At the University of South Australia, UniSA Connect will provide an immersive STEM Inquiry Based Learning program. Students will work as scientists to learn skills and knowledge to be able to identify solutions to a big question proposed to them. They will hear from a STEM Researcher and work in specialised facilities. At the conclusion of the program, students will communicate their analysis to the group. The underlying emphasis is to encourage STEM careers and to build peer networks with like-minded STEM students.



# Victoria

## FEDERATION UNIVERSITY, GIPPSLAND

23 - 25 SEPT 2019

Hands on activities in animal and environmental sciences, biomedical science, IT and engineering will keep you busy. A field trip will get you thinking about exciting career opportunities. Get ready to make new friends, ask lots of questions and make new discoveries when you take part in our program this year.

## MARINE & FRESHWATER DISCOVERY CENTRE, QUEENSLIFF

20 - 22 JAN 2020

More than just marine biology - investigate all options linked to aquatic ecology - both marine and freshwater, as well as expanding experiences beyond science into other areas such as law enforcement e.g. Fisheries Officers.

## RMIT UNIVERSITY

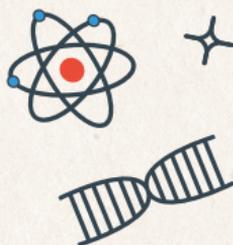
14 - 16 JAN 2020

Budding scientists entering Year 10 or 11 in 2020 will work together to problem solve real world challenges in laboratories and state-of-the-art facilities in disciplines such as space science, nanotechnology, biomedical science, sensory science and engineering, and participate in excursions off-campus. Interactive activities and guest lectures will provide attending students with an invaluable opportunity to learn from academic experts, and friendly RMIT student mentors will be their guides throughout the program. The RMIT University ConocoPhillips Science Experience gives students the opportunity to explore career paths in STEM, make like-minded new friends, and see what university is all about in a supportive and exciting environment.

## SWINBURNE UNIVERSITY OF TECHNOLOGY, HAWTHORN

10 - 12 JUL 2019

With a focus on industry and real world applications, you will meet leaders from the scientific community, work with innovative technologies in our specialised labs and facilities, watch out-of-this-world science demonstrations and participate in hands-on workshops that will challenge and excite.





**FEDERATION UNIVERSITY,  
BALLARAT**

23 - 25 SEPT 2019

Whether it's an activity in exercise and sport science, forensic chemistry, geospatial science, botany, robotics, engineering or computer graphics, you will use your knowledge, curiosity, ingenuity, team-work, communication and planning skills to think, act and explore the world as a STEM professional. What more could a keen scientist want?

**UNIVERSITY OF MELBOURNE,  
PARKVILLE**

13 - 15 JAN 2020

Science is more than the biology, chemistry and physics and we want to show you how diverse and broad it can be. Science is at the heart of pretty much everything we do and The University of Melbourne will expose you to how exciting science is. Our program is supported by dedicated student mentors who study across a multitude of disciplines; IT and Data Science, Chemistry, Geology, Physics, Environmental Science, Engineering and the Life Sciences.

**UNIVERSITY OF MELBOURNE,  
DOOKIE CAMPUS**

27 - 29 NOV 2019

Dookie campus is a working farm- a centre of agricultural research. You will join scientists and agricultural students in hands on activities in the laboratory and paddock investigating real world issues. Activities include perennial ryegrass toxicity, sheep science, ultra-sound technology, wool classing, protein content of milk, cheese making and robotic dairy.



**SWINBURNE UNIVERSITY KIOSC,  
WANTIRNA**

17 - 19 SEPT 2019

Students will engage in a wide hands-on activities and workshops in robotics and coding, virtual reality, chemistry and biology, advanced manufacturing and the internet of things!

UNIVERSITIES & TERTIARY INSTITUTIONS	PROGRAM DATES
<b>Australian Capital Territory</b>	
Australian National University, Canberra	25-27 SEPT 2019
<b>New South Wales</b>	
Macquarie University, Sydney	20 -22 JAN 2020
University of New England, Armidale	14-16 JAN 2020
University of Sydney, Sydney	15-17 JAN 2020
University of Technology, Sydney	14-16 OCT 2019
<b>Northern Territory</b>	
Charles Darwin University, Casuarina Campus	15-17 OCT 2019
<b>Queensland</b>	
Griffith University, Gold Coast	2-4 JULY 2019
Queensland University of Technology, Gardens Point / University of Queensland, St Lucia / Griffith University, Nathan	21-24 JAN 2020
University of Queensland, St Lucia	22-24 JAN 2020
University of Southern Queensland, Toowoomba	24-26 SEPT 2019
Central Queensland University, Gladstone Marina	15-17 OCT 2019
Central Queensland University, Rockhampton	25-27 JUNE 2019
University of Queensland, Heron Island (for yrs 11 & 12 only)	12-20 OCT 2019
<b>South Australia</b>	
University of Adelaide, Adelaide	10-12 DEC 2019
Flinders University, Adelaide	4-6 DEC 2019
University of South Australia, Adelaide (2 separate programs)	1-3 OCT 2019 26-28 NOV 2019
<b>Tasmania</b>	
University of Tasmania, Hobart	11-13 DEC 2019
University of Tasmania, Launceston	3-5 DEC 2019
University of Tasmania, Cradle Coast	26-28 NOV 2019
<b>Victoria</b>	
Federation University, Gippsland	23-25 SEPT 2019
Marine & Freshwater Discovery Centre, Queenscliff	20-22 JAN 2020
RMIT University, Melbourne	14-16 JAN 2020
Swinburne University of Technology, Hawthorn	10-12 JULY 2019
Federation University, Ballarat	23-25 SEPT 2019
University of Melbourne, Parkville	13-15 JAN 2020
Melbourne University, Dookie campus	27-29 NOV 2019
Swinburne University KIOSC, Wantirna	17-19 SEPT 2019
<b>Western Australia</b>	
Curtin University, Perth	10-13 DEC 2019
Murdoch University, Perth	16-19 DEC 2019
Edith Cowan University, Joondalup	14-17 JAN 2020
The University of Western Australia, Perth	14-16 JAN 2020
Edith Cowan University, South West	3-5 DEC 2019



## Who we represent

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science schools foundation

The ConocoPhillips Science Experience is a Nationwide STEM outreach program established, managed and conducted by the **The Science Schools Foundation Incorporated**, an independent non-profit association of educationalists, Rotarians and industrialists.

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## Our Supporters

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**ConocoPhillips**  
Australia

ConocoPhillips explores for and produces oil and gas around the world. They operate in 17 countries with more than 11,000 employees, including major operations in Australia. To find out more visit [www.conocophillips.com.au](http://www.conocophillips.com.au)

# Our Supporters

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AUSTRALIAN  
SCIENCE  
TEACHERS  
ASSOCIATION

## Australian Science Teacher Association (ASTA)

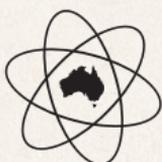
Promotes the program to schools and teacher members

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## Rotary Clubs

- sponsor many students to attend,
  - promotes the program to schools,
  - participates actively in organising programs and provides social activities.
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## Young Scientist of Australia (YSA)

Several hundred YSA members voluntarily assist the universities and tertiary institutions in conducting the program

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## Universities and Tertiary Institutions

- organise and conduct the programs on their campuses
- provide a director and presenters
- provide laboratories and other resources



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