

World Science Festival Brisbane 2017 is committed to creating engaging experiences for students of all ages, grounded in curriculum and supporting a culture of lifelong learning.

The World Science Festival Brisbane's weekday program on Thursday and 23 March and Friday 24 March has been designed to allow travel to and from the Festival during school hours. For the latest program information, visit www.worldsciencefestival.com.au/learn/education-program

School bookings are essential. Bookings for paid programs during the festival should be booked through QTIX Group Sales on 07 3840 7466 or email groups@qtix.com.au

If you wish to visit any other exhibitions or free programs at Queensland Museum & Sciencecentre, please book the rest of your visit through Queensland Museum & Sciencecentre schools and groups bookings. Phone 3840 7608 Monday to Friday 8:30am – 4pm or book online at www.qm.qld.gov.au/Visit+Us/Schools+and+Groups (Queensland Museum website, click on Visit Us and then Schools and Groups).

Supervision - Adult/child ratio

One adult is FREE for every:

- 3 x Prep aged students
- 5 x Primary aged students
- 10 x students in Years 7 to 10
- 15 x students in Years 11 to 12.

Please note you will need to quote adult numbers when purchasing tickets.

Priority booking offer

A limited number of tickets are being held for teachers who are here tonight, to ensure your school doesn't miss out on purchasing tickets. This offer is available until 24th of November.

An email will be sent to you this evening with special priority bookings instructions.

Bookings need to be confirmed by end of Term 3, 9th December 2016

Payment is due by the first week of term 1, 3rd February 2017

Supervision of students

Group supervisors are responsible for the supervision of students and children while at the World Science Festival Brisbane and should remain with their students at all times.

Lunch and refreshments

You are welcome to bring morning tea or lunch and eat at:

- ENERGEX Playasaurus Place
- Cultural Centre forecourt (grassed and paved areas along Melbourne Street) or
- Cultural Forecourt, South Bank Parklands.

Please remember, you cannot eat or drink inside the Museum unless you have specific medical needs.

Stay in touch

Stay informed about upcoming exhibitions, programs and resources by subscribing to the World Science Festival Brisbane Mailing List – visit www.worldsciencefestival.com.au

Visitors with individual needs

At Queensland Museum we aim to provide access to all visitors. There is easy lift access to the Museum and Sciencecentre from the car park and for bus and taxi passengers from Grey Street.

All entrances and areas are wheelchair accessible. Disabled toilet facilities are located on Level 0 and Level 2 and in the Sciencecentre.

For more information see [information for visitors with individual needs](#) or phone Group Bookings on 07 3840 7608.

Contact

For questions, queries and more information please contact:

Maho Go, Producer - Lifelong Learning
World Science Festival Brisbane
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07 3842 9703

COOL JOBS

Meet these cool people and hear their stories!

The Festival's ever-popular Cool Jobs is back and brings you face-to-face with four amazing scientists doing amazing jobs. Joining us, among other renowned scientists will be Biomedical Illustrator Madeleine Kersting Flynn who illustrates complex biomedical processes at a the world-leading medical research institute QIMR Berghofer, and Queensland Museum's Marine Biologist Dr Tom Bridge who maps the spectacular Great Barrier Reef's ocean floor using brand new 3D imaging technology. Learn what it takes to do some of the coolest jobs on earth and how these people inspire learning and excitement about science.

Venue: Griffith Conservatorium

Location: 114 Grey St, South Brisbane QLD 4101

Date: Thursday 23 March

Time: 9:30am-10:30am and 1:30pm-2:30pm

Tickets: \$10

Recommended for Years 7-12

APPRENTICE PROGRAM: Cancer Crusader's Apprentice

The Apprentice Program is an immersive experience for Years 10-12 students keen to get a taste of real science in action. Are you interested in finding a cure for cancer? As an Apprentice you'll have access to one of the PC2-classified laboratories at the Translational Research Institute, under the guidance of Professor Brian Gabrielli and his team. The program consists of two 45-minute sessions. In one session you will be put to work analysing time-lapse movies of cancer cells treated with a number of anti-cancer drugs and be called upon to assess the effects of the drugs. In the second session, you will use a fluorescence microscope to look inside cells and analyse the effects that the drugs have on intra-cellular structures, and how these might affect the survival of cancer cells.

Notes:

- Capacity limit of 30 per session
- Participants must be aged 15 and over
- Covered footwear is essential.
- School and international study groups* must be accompanied by a teacher

* Basic scientific English language skills are essential.

Venue: TRI

Location: 37 Kent Street, Woolloongabba QLD 4102

Date: Thursday 23 March

Time: 10am-11:30am

Tickets: \$10

Years 10-12 only

APPRENTICE PROGRAM: Microbiologist's Apprentice

The Apprentice Program is an immersive experience for students in Years 10-12 who are keen to get a taste of real science in action. The Apprentice Programs are small, hands-on workshops in which scientists, technologists, and innovators educate curious minds on the workings and wonders of their chosen fields. Combining biology, chemistry and physics, biomedical science examines the genetic and environmental causes of disease, and explores prevention, diagnosis and treatment. Apprentices will have an opportunity to experiment at QIMR Berghofer, a world-leading medical research institute using plant extracts to test how effectively a natural product can kill bacteria.

Notes:

- * Capacity limit of 24 per session
- * Participants must be aged 15 and over
- * Covered footwear is essential.
- * School and international study groups must be accompanied by a teacher*

* Basic scientific English language skills are essential.

Venue: QIMR Berghofer Medical Research Institute

Location: 300 Herston Road, Brisbane

Date: Thursday 23 March 2017

Times: 9.30am-11am and 1pm-2.30pm

Cost: \$10

Years 10-12 only

ANSTO: Fact or Fiction School Show

How much does the internet weigh? What is the science behind Facebook? Are cats taking over the world?

Find the answers to these questions and more at Fact or Fiction 2.0 Web of Intrigue - a big screen experience where the world wide web collides with cutting-edge science.

The Australian Nuclear Science and Technology Organisation in Sydney is bringing an esteemed panel of expert scientists to discuss the fact and fiction behind internet shopping, viral videos, the science of selfies and much more as we countdown the top reasons people use the internet.

In this free, interactive show your students are part of the action, using their own smart devices to answer live questions and vote to help us separate the actual science fact from the pure science fiction.

Fact or Fiction 2.0 appeals to all audiences as a highly entertaining and educational show, reaching beyond those interested in science by providing a big dose of pop-culture. After successfully touring multiple locations across Australia in 2012-2014 with our previous Fact or Fiction show featuring Sci-Fi Films, ANSTO is excited to be touring our new show, Fact or Fiction 2.0 Web of intrigue, exposing the fact from the fiction in such a ubiquitous topic as the internet.

Venue: Griffith Conservatorium

Location: Griffith University 114 Grey St, South Brisbane QLD 4101

Date: Thursday 23 March

Time: 11:30pm-12:30pm

Tickets: FREE

Recommended for ages 8 and above

FLIGHT CLUB: Design a Creature with Flight Club Features

Welcome to flight club. Explore how the animal kingdom has perfected the art of flying, soaring, parachuting and gliding to survive within diverse habitats. In this hands-on workshop, you will get up close and personal with museum specimens, examine the unique features and adaptations that enable flight, and use the wonders of nature to inspire your very own winged creation.

Venue: Queensland Museum

Location: Grey St & Melbourne St, South Brisbane QLD 4101

Date: Thursday 23 March and Friday 24 March

Time: 10am-11am, 11:30am-12:30am and 1pm-2pm

Tickets: \$10

Recommended Age: 8 years and above

Years 4-6 only

PIONEERS IN SCIENCE: Professor Ian Frazer

Great minds inspire greatness. The Pioneers in Science program gives high school students – in person and online – rare access to some of the world's most renowned scientists.

This year our special guest is Professor Ian Frazer who pioneered the development of the cervical cancer vaccine known as Gardasil. Professor Frazer was also the founding Chief Executive Officer and Director of Research for the Translational Research Institute (TRI) and has won many prestigious awards including the 2006 Australian of the Year, the 2005 CSIRO Eureka Prize for Leadership in Science, and the Prime Minister's Prize for Science in 2008.

This intimate gathering allows students to address some of the most important topics in science with Professor Ian Frazer, who will share his personal stories, life challenges, and career highlights, giving students a chance to imagine what their future in science might be.

A free student workbook will be available for this program. There is also a special opportunity for students to submit questions online prior to the event. Some of these questions will then be chosen for the student to ask in person during the show. To submit questions please fill out the <https://marcatoapp.com/forms/https-wsfb2017/pioneer-professor-ian-frazer> before 24 February 2017.

Submissions are open now. We will contact you via email if your question is chosen for the event on 24 March.

Venue: Concert Hall

Location: Queensland Performing Arts Centre, Corner Melbourne and Grey Streets, South Brisbane

Date: Friday 24 March 2017

Time: 11.30am-12.30pm

Tickets: \$10

Recommended for Years 9-12

APPRENTICE PROGRAM: Museum Curator's Apprentice

The Apprentice Program is an immersive experience for students in Years 10-12 who are keen to get a taste of real science in action. They are small, hands-on workshops in which scientists, technologists, and innovators educate curious minds on the workings and wonders of their chosen fields. In the Museum Curator's Apprentice Program, a team of Queensland Museum biologists will introduce students to the huge diversity of Queensland's unique animals by touring the collection vaults of the Museum and presenting insights into how old and new technologies have come together to dramatically change the sciences of taxonomy, systematics and evolutionary biology.

- Capacity limit of 35 per session
- Participants must be aged 15 and over
- Covered footwear is essential
- School and international study groups must be accompanied by a teacher*

* Basic scientific English language skills are essential

Venue: Queensland Museum Theatre

Location: Grey St & Melbourne St, South Brisbane QLD 4101

Date: Friday 24 March 2017

Time: 1pm-3pm

Tickets: \$10

Years 10-12 only

APPRENTICE PROGRAM: Geneticist's Apprentice

The Apprentice Program is an immersive experience for students in Years 10-12 who are keen to get a taste of real science in action. The Apprentice Programs are small, hands-on workshops in which scientists, technologists, and innovators educate curious minds on the workings and wonders of their chosen fields. Combining biology, chemistry and physics, biomedical science examines the genetic and environmental causes of disease, and explores prevention, diagnosis and treatment. Apprentices will have a chance to experiment at QIMR Berghofer, a world-leading medical research institute to learn the techniques used to analyse DNA, and to examine the inheritance of genetic material.

Notes:

- Capacity limit of 24 per session
- Participants must be aged 15 and over
- Covered footwear is essential.
- School and international study groups must be accompanied by a teacher*

* Basic scientific English language skills are essential

Venue: QIMR Berghofer Medical Research Institute

Location: 300 Herston Road, Brisbane

Date: Friday 24 March 2017

Times: 9.30am-11am and 1pm-2.30pm

Cost: \$10

Years 10-12 only

GREEN HEARTS CHALLENGE:

Future BNE Challenge

Calling all young scientists! We need your help to secure Brisbane's water future. Green Heart Schools invites Year 7 students to the Future BNE Challenge on Friday 24 March 2017. Student teams from schools across Brisbane will battle it out as they channel their best innovative ideas to critically evaluate water availability and quality and discover how science, technology and design can work to build a better future. Future BNE Challenge is open to Year 7 students and is linked to the Australian Curriculum and STEM agenda. Schools are invited to register their interest now to reserve their place, with ticketing opening early 2017.

Find out more about this free event and register your students now. Visit the website for more details www.brisbane.qld.gov.au/environment-waste/be-clean-green-brisbane/green-schools/world-science-festival-brisbane-green-heart-schools-future-bne-challenge

Venue: South Bank Piazza

Location: Cnr Glenelg St & Little Stanley St, South Bank

Date: Friday 24 March

Time: 8am-3pm

Tickets: Free

Year 7 only

NATIONAL YOUTH SCIENCE FORUM:

Five Minutes with Your Future

Meet a university science student or a newly graduated scientist and put them to the test!

Do you like studying science at school? Are you interested in a career in science? Who better to talk to for more information than people currently studying science at university and those who have recently graduated. So come along and meet a chemist with an element of surprise; a biologist with designer genes; an electrical engineer with an extra big hertz ... sorry, heart!

On Friday 24 March, the National Youth Science Forum (NYSF) is hosting a Five Minutes with Your Future event, designed for you to put these new and almost-there scientists to the test. Ask them your toughest questions about completing high school science and what courses to study at university. NYSF alumni will also be available for a chat. During the one-hour session, you are welcome to move around the groups and make the most of this important and fun opportunity.

Venue: Collectors Café Balcony, Queensland Museum

Location: Grey St & Melbourne St, South Brisbane

Date: Friday 24 March

Time: 10am-11am, 11:30am-12:30am and 1pm-2pm

Tickets: Free

Years 10-12 only

THE ROBOTICIST'S APPRENTICE

What if a robot could use the world we live in as a canvas to paint on? Throughout history, artists and scientists have worked together to imagine a better world. Sometimes – as in the case of Leonardo Da Vinci – artists have also been scientists, exploring the possibilities of new forms of technology. You will get an opportunity to program a one-of-a-kind CubeBot to drive around

Notes:

- Capacity limit of 30 per session
- Participants must be aged 15 and over
- Covered footwear is essential.
- School and international study groups* must be accompanied by a teacher

* Basic scientific English language skills are essential

Venue: QUT Gardens Point

Location: P-Block Room P419

Date: Thursday 23 March and Friday 24 March

Time: 10am to noon

Tickets: \$10

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