

# Future You STEM SUMMIT

BRISBANE  
2022 PROGRAM  
27 - 30 SEPTEMBER

## TUESDAY

9.30AM – 10.00AM

Registration and campus tours

10.00AM – 12.00PM

Welcome to QUT –  
opportunities in STEM  
Guest speakers from Industry

12.00PM – 1.00PM

LUNCH

1.00PM – 3.30PM

STEM Taster practical or  
STEM Internship session  
GP OR KG CAMPUS

3.30PM – 5.00PM

STEM-X Networking  
Guest speakers from Industry

## WEDNESDAY

9.30AM – 10.00AM

Curiosity, creativity and STEM for  
the real-world.

Professor Margaret Sheil, QUT Vice-  
Chancellor and President

10.00AM – 12.30PM

STEM Taster practical or  
STEM Internship session  
GP OR KG CAMPUS

12.30PM – 1.30PM

LUNCH

1.30PM – 4.00PM

STEM Taster practical or  
STEM Internship session  
GP OR KG CAMPUS

4.00PM – 5.30PM

Industry site visits  
**Cross River Rail, Suncorp and more**  
(optional attendance)

**STEM TASTER: ELECTRIC MOTOR AND  
GEARBOX TORQUE, EFFICIENCY, AND  
THERMAL TESTING**

STEM Disciplines explored: mechanical  
engineering, design engineering, mathematics

Within the practical, students will operate a small  
electric motor and gearbox configured within  
a dynamometer arrangement, where readings  
of the power, speed, temperature, energy  
regeneration, and other metrics will be used to  
determine the motor efficiency and effective  
working ranges.

## THURSDAY

8.30AM – 10.00AM

Supporting Australia's Health  
through STEM.

Guest speakers from Industry

10.00AM – 12.30PM

STEM Taster practical or  
STEM Internship session  
GP OR KG CAMPUS

12.30PM – 1.30PM

LUNCH

1.30PM – 4.00PM

STEM Taster practical or  
STEM Internship session  
GP OR KG CAMPUS

4.00PM – 5.00PM

STEM Games!  
**Table tennis, Quidditch, eSports**  
(optional attendance)

**STEM INTERNSHIP: PRECISION  
PHOTOCHEMISTRY**

STEM Disciplines explored: chemistry,  
photophysics, materials science

In this placement, students will perform  
some precision photochemical reactions, and  
investigate the dependence of the reactions on  
the colour of light applied. Students will perform  
hands on chemical synthesis, to investigate  
molecules response to different colours of light  
using lasers.

## FRIDAY

8.30AM – 10.30AM

Future jobs, future you.  
Guest speakers from Industry

10.30AM – 12.30PM

Iterate: innovation and  
entrepreneurship workshop.  
GP CAMPUS

12.30PM – 1.00PM

LUNCH

1.00PM – 2.00PM

Entrepreneurship Challenge  
GP CAMPUS

2.00PM – 3.00PM

Closing session  
GP CAMPUS

**STEM TASTER: ZOMBIE BUSTERS**

STEM Disciplines explored: clinical health  
science, pharmacy, mathematics

The Brisbane outbreak of the Z0-M8-1E virus  
to have reached epidemic levels, you and your  
team of pharmacists have been asked to help  
prevent this outbreak from spreading. Using  
your expert pharmaceutical knowledge, you are  
tasked with creating a formulation to administer  
a newly discovered drug that is thought to be  
effective against the virus but never been has  
never been used in humans.