

Future You STEM SUMMIT

BRISBANE
2022 PROGRAM

TUESDAY

9.30AM – 10.00AM

Registration and campus tours

10.00AM – 12.00PM

Welcome to QUT –
opportunities in STEM
Guest speakers from Industry

12.30PM – 1.30PM

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

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 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

9.30AM – 10.00AM

Curiosity, creativity and STEM
for the real-world.
Guest speaker from QUT

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, Boeing and more
(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.