



SCIENCE AND
INDUSTRY
ENDOWMENT
FUND



Generation STEM

STEM Community Partnerships Program



Generation STEM

As we move into an era of fast-paced technological disruption, a science, technology, engineering and maths (STEM) skilled, innovation-capable workforce will be integral to enabling the growth of our nation and economic prosperity.

There is a clear current and future need for STEM-skilled talent. STEM skills are already in high demand and growing almost two times faster than other jobs.

The NSW State Government has made a ten year, \$25 Million endowment to the Science and Industry Endowment Fund (SIEF) to establish the Generation STEM initiative to attract, support, retain and train NSW students into STEM career paths.

Generation STEM takes a location-based approach with the program being delivered in regions in NSW where there is a current and future need for STEM skills. The initiative launched in Western Sydney.

Generation STEM empowers local young-people with the relevant STEM skills to pursue a STEM career. The ambition is to build a strong community of STEM-capable citizens to fuel local industry.





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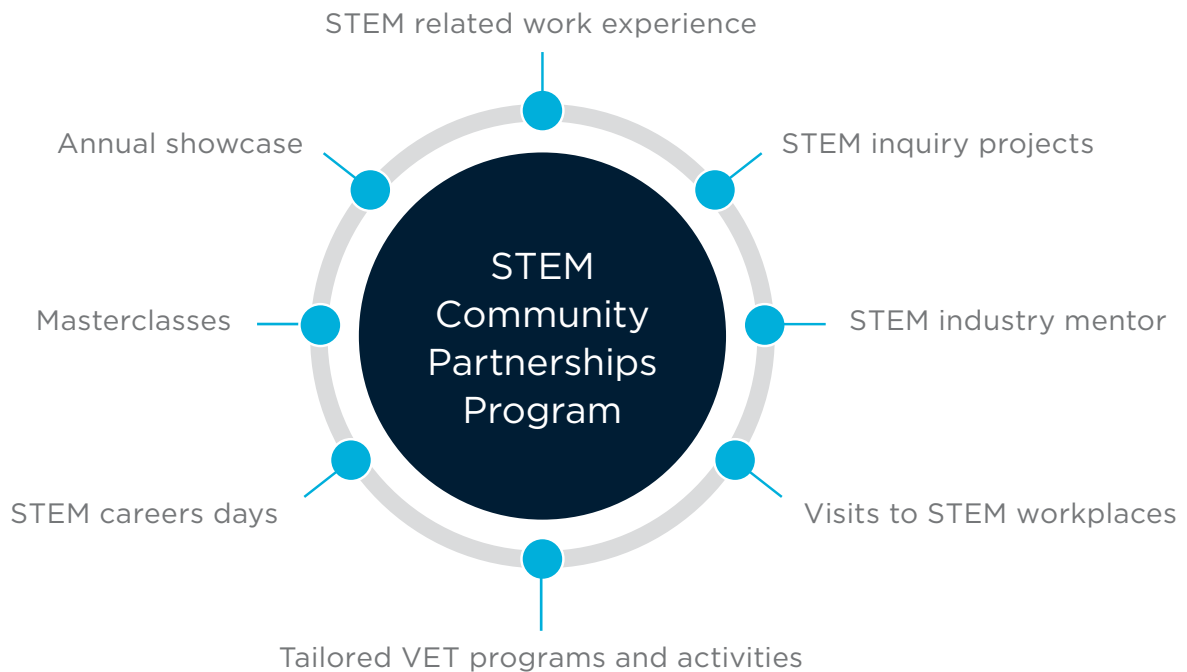
The first program to launch under the Generation STEM initiative is the STEM Community Partnerships Program (STEM CPP).

STEM CPP aims to create strong partnerships between local schools and industry, with the goal of highlighting local STEM careers and opportunities, and providing avenues for students to develop their STEM skills in a locally meaningful way.

This program provides Year 9 and 10 students with an opportunity to engage in student-led STEM-based projects to address challenges faced by the local community.

The full program includes:

- STEM inquiry projects that are relevant to the local community using CSIRO's CREST (Creativity in Research, Engineering, Science and Technology) Awards
- A STEM mentor who helps the teacher guide the STEM inquiry projects through STEM Professionals in Schools
- Visits to STEM workplaces in the region (for selected students)
- STEM related work experience opportunities (for select students)
- Attendance at local industry STEM careers events
- Masterclasses to assist with STEM projects and work experience
- Annual showcase of STEM inquiry projects
- Tailored Vocational Education and Training (VET) programs and activities





Benefits to local businesses

It is intended that this program will result in:

- A larger talent pool of highly skilled STEM candidates for your business and other local employers
- An opportunity to build a potential pipeline of new, local talent for your organisation
- An opportunity to partner your staff with education providers to promote the importance of STEM skills and showcase the work of your organisation
- An increase in your organisation's brand awareness within the local community



How your business can get involved

There are number of different ways your business can get involved in STEM CPP and inspire local students to pursue a STEM career pathway.

To register for STEM CPP, your business must meet the minimum requirements and commit to at least one of the activities listed below.

INDUSTRY WORKSHOP

Annual workshops are held with industry and local government to identify the biggest challenges in your region. These challenges will then provide stimulus for classroom investigations, where students find STEM solutions for these local challenges.

TIME: Allow one hour workshop plus networking and travel time.

INDUSTRY MENTORING

The STEM Professionals in Schools program invites you to assist teachers as they guide their students through the inquiry process. As an industry mentor you will be invited to attend the end-of-year project showcase, where the best student solutions are presented to the local community.

TIME: Mentor time is flexible and negotiated between teachers and STEM professionals.

WORK EXPERIENCE

Provide the opportunity for a student to experience what working in your business or industry is like.

TIME: This is a flexible arrangement to suit your workplace.

MASTERCLASSES

Deliver a masterclass on a topic that showcases your business and industry's work and innovation, whilst engaging students in the real-world application of STEM. We'll work with you to develop the content of the masterclass to make sure it is fun and engaging.

TIME: Allocation is dependent on content, however CSIRO staff will endeavour to work with your existing content and will always consider your availability.

INDUSTRY VISITS

Just one encounter with a STEM professional at work can spark a lifetime passion for STEM in young people. Help us take students out of the classroom and into the workplace to witness the real-world applications of STEM by hosting a tour of your business. A visit to your workplace will demonstrate the different STEM careers available to students in their community.

TIME: Allow 30-60 minutes per visit plus additional planning time with CSIRO project officers, who will assist with the logistical planning of the visit.

Minimum requirements

- Your business is located in one of Generation STEM's location priorities
- Commit to at least one STEM CPP activity per year
- Your business falls within the STEM industries category or you use STEM innovation in the workplace



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