



CQUNIVERSITY STEM STRATEGY

**SCIENCE, TECHNOLOGY,
ENGINEERING AND
MATHEMATICS**

RATIONALE

The purpose of this STEM (Science, Technology, Engineering and Mathematics) Strategy is to develop and implement a university wide, coordinated approach to STEM research, learning and teaching, and engagement.

The Strategy provides clearly articulated objectives for CQUniversity in relation to STEM research, learning and teaching, and engagement. The STEM Strategy reinforces CQUniversity's commitment to STEM education and research nationally and highlights the strategic approach CQUniversity is taking to grow STEM within the University.

GOALS

- » Develop a strategic approach to STEM research, learning and teaching and engagement.
- » Develop and foster partnerships with government, industry, students and the community to advance STEM research, education and engagement.
- » Conduct informative and effective research that influences STEM nationally and internationally.
- » Provide exceptional education to improve STEM literacy, inspire students, and raise awareness and interest in STEM education and careers.
- » Provide research informed teaching and learning in STEM areas.
- » Grow a culture of social innovation through collaboration and the conduct of STEM activities.

STRATEGY

CQUniversity will deliver this strategy through:

1. research
2. learning and teaching
3. engagement
4. social innovation
5. resources.

VISION

To be a renowned leader in Science, Technology, Engineering and Mathematics (STEM) education, research and engagement.

MISSION

Through social innovation, advance STEM initiatives in research, learning and teaching, and engagement.

1. RESEARCH OBJECTIVES

CQUniversity will:

- i. establish a unified source for supporting and promoting CQUniversity's excellence in STEM research
- ii. encourage inclusiveness across STEM research at the levels of leaders, research staff, RHD and undergraduate students
- iii. provide a strategic approach for pursuing and attracting more externally funded STEM research grants
- iv. be a hub for hosting national and international STEM academics and professional experts.

2. LEARNING AND TEACHING OBJECTIVES

CQUniversity will:

- i. increase participation in STEM courses by providing an engaging experience for students
- ii. grow the opportunity for students to study STEM units
- iii. provide high quality and recognised opportunities for professional development for STEM educators
- iv. provide culturally appropriate and culturally inclusive opportunities for Aboriginal and Torres Strait Islander people in STEM
- v. provide opportunities for further involvement of women in STEM.





3. ENGAGEMENT OBJECTIVES

CQUniversity will:

- i. develop and foster a strong network of partners within STEM through effective industry and community collaborations
- ii. continue to grow CQUniversity's STEM profile
- iii. evaluate CQUniversity's contribution to STEM within community and industry.

4. SOCIAL INNOVATION OBJECTIVES

CQUniversity will:

- i. collaborate with government, industry, schools and local organisations to promote STEM within communities
- ii. promote opportunities for students to be involved in STEM research, education and engagement activities to build their skills for tackling and solving real-life challenges nationally and internationally.

5. RESOURCES OBJECTIVES

CQUniversity will:

- i. enhance collaboration between campuses, divisions and schools across the University through the STEM Leadership Group
- ii. continue to grow national and international partnerships to enhance the delivery of STEM research, education and engagement at CQUniversity
- iii. foster a sense of community for staff and students with an interest in STEM research, education and engagement through providing STEM programs and activities
- iv. continue the University's STEM agenda through establishing STEM hubs across CQUniversity campuses.

The STEM Strategy reinforces CQUniversity's commitment to STEM research and education nationally and highlights the strategic approach CQUniversity is taking to grow STEM within the University.





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**TAFE AND
UNIVERSITY
QUALIFICATIONS**