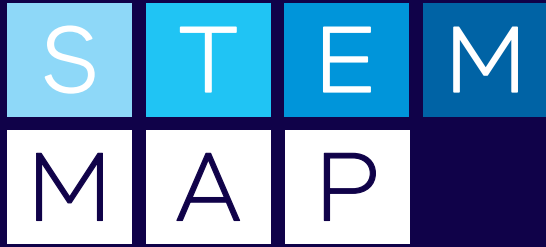
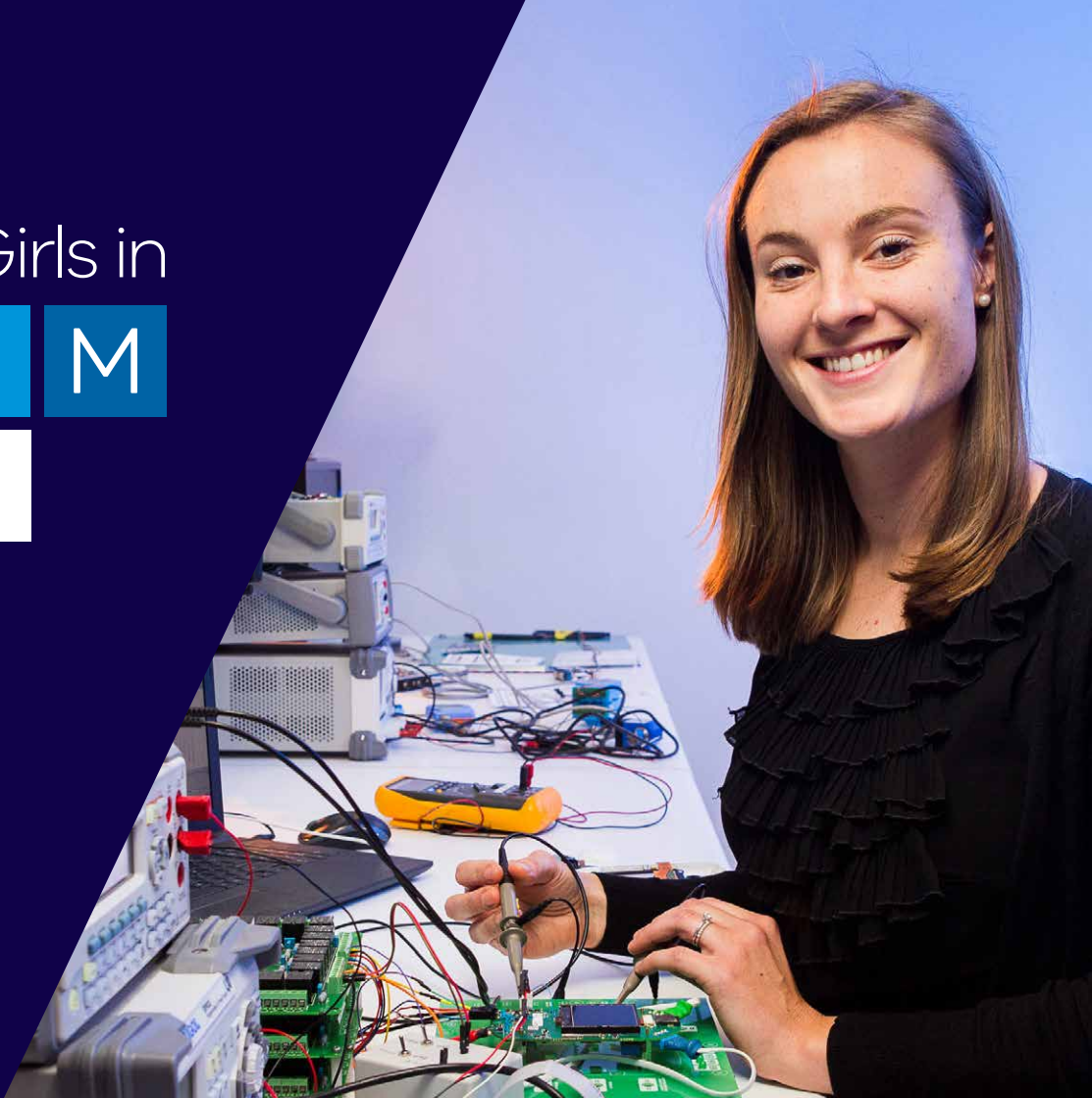


Women & Girls in



A VICTORIAN RESOURCE
Discover Align Connect



INTRODUCTION

Underrepresentation of women and girls in Science, Technology, Engineering and Mathematics (STEM) is a significant barrier to achieving our scientific potential.

Although there are many STEM activities supporting the development of women and girls in Victoria, they can be difficult to find and access.

To improve the visibility of these activities, the *Women and Girls in STEM Map* consolidates and displays the range of programs available to Victorian women and girls.

The STEM Map creates a visual representation of resources available throughout a person's STEM education, from primary school through to their professional career, enabling more women and girls to pursue a career in STEM.

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ABOUT THE MAP

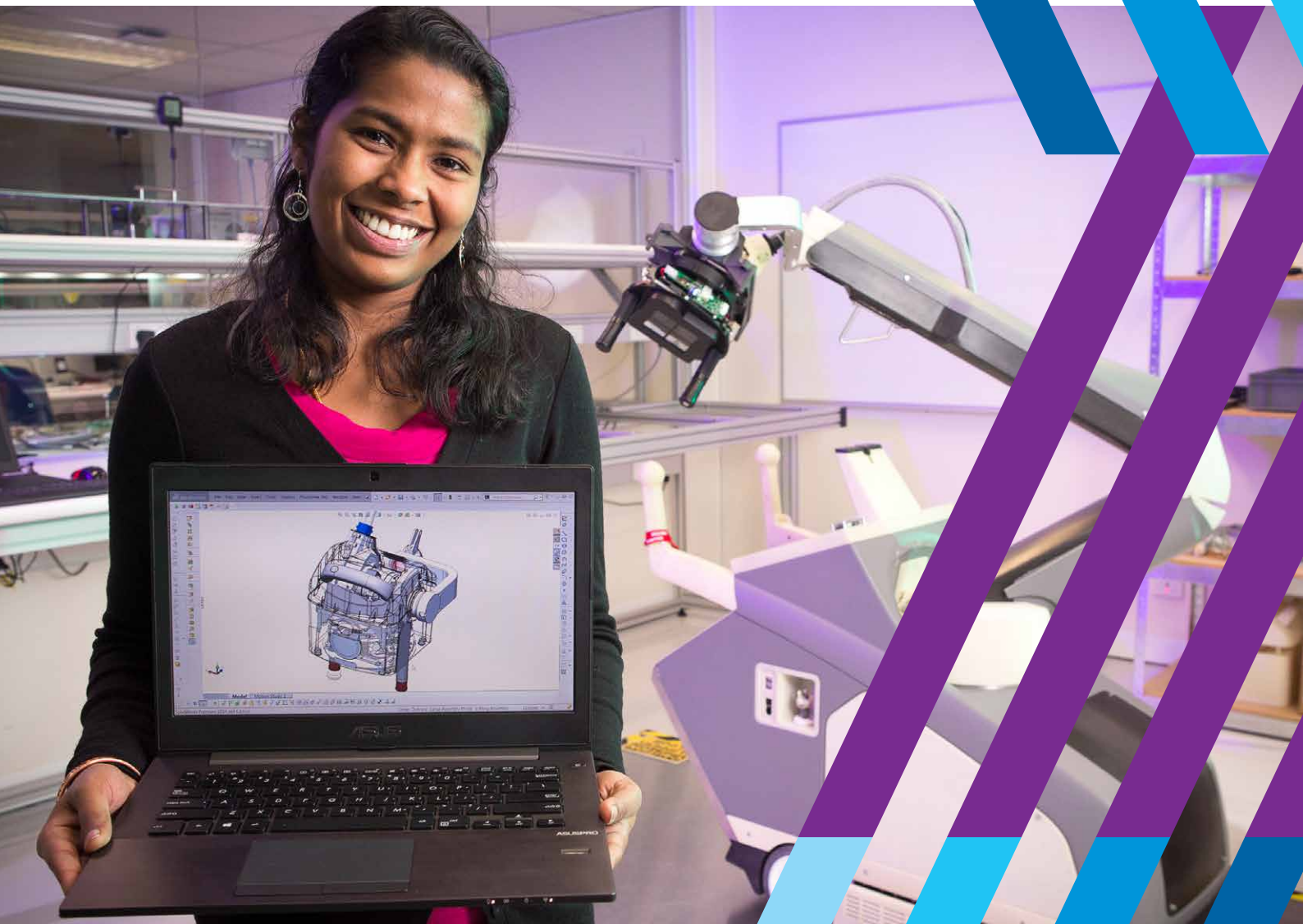
The Office of the Lead Scientist recognises that there are a wide range of STEM activities available to women and girls. This map focuses on activities specifically designed for women and girls.

Please note that:

- Some co-educational programs are included for the categories of *Maths*, *Mentoring* and *Primary Schools* because there are a limited number of women and girl-specific initiatives
- National and international programs that are accessible to Victorians are included
- All programs presented on the map are accessible to regional students
- Some programs fit into more than one category but are only listed once

The information provided is the best available at the time of production. We acknowledge that the information may not be complete and is subject to change.

A key source of information was the *Mapping Australian STEM participation initiative for girls and women* resource produced by the Australian Academy of Science. An interactive database can be found at stemwomen.org.au/resources



PROGRAMS FOR WOMEN AND GIRLS IN STEM

STEM

Many activities take an interdisciplinary approach to STEM to maximise their reach to women and girls across the diversity of disciplines.

Science

Science activities tend to be more general for primary and secondary schools, becoming more discipline-specific for tertiary students and professionals.

Technology

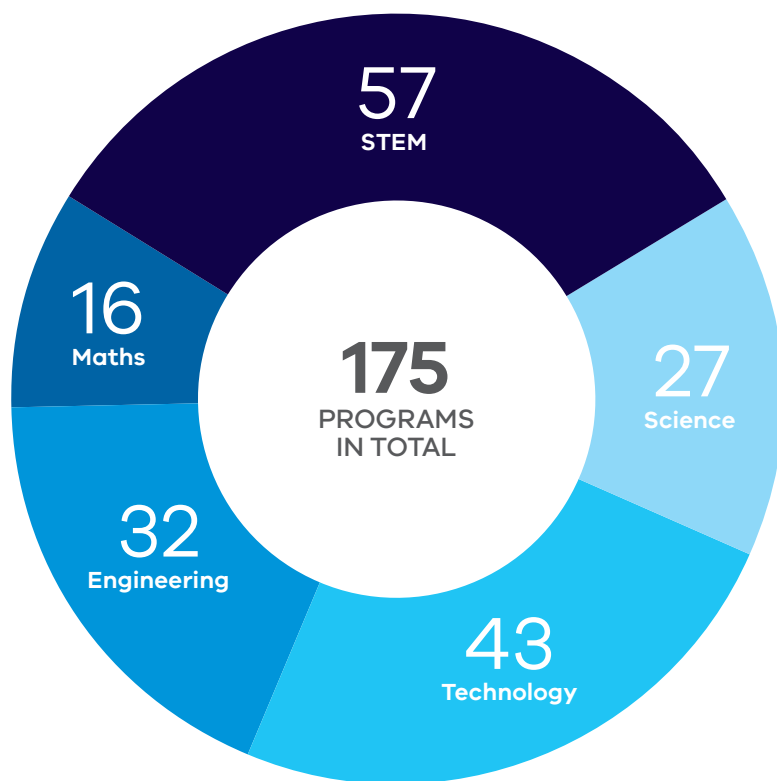
There are a broad range of activities available for women and girls at all levels, reflecting the diversity of Technology disciplines.

Engineering

Primary and secondary school activities expose women and girls to the diversity of engineering disciplines. At the tertiary level, there are many activities to encourage the success of women engineers.

Mathematics

Most mathematic activities are co-educational and directed towards primary and secondary students.



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PRIMARY AND SECONDARY SCHOOLS

COMPETITIONS & AWARDS

- Creativity in Science and Technology Awards (CREST) **S** **C**
- LittleBIGidea **S** **C**
- ScienceIQ **S** **C**
- Science Talent Search **S** **C**
- Sleek Geeks Science Eureka Prize **S** **C**
- Computational and Algorithmic Thinking Competition **T** **C**
- STEM Video Game Challenge **T** **C**
- Young ICT Explorers **T** **C**
- FIRST LEGO League **E** **C**
- ACER International Mathematical Modelling Challenge **M** **C**
- Australasian Problem Solving Mathematical Olympiads **M** **C**
- Australian Mathematics Competition **M** **C**
- Mathematics Challenge for Young Australians **M** **C**
- MAV Maths Talent Quest **M** **C**
- Statistical Society of Australia National Schools Poster Competition **M** **C**

RESOURCES

- ATSE STELR Modules **STEM** **C**
- ATSE STELR Videos **STEM**
- Australian Science TV – Unconscious Bias – You Can Be a Scientist **STEM**
- Enterprise and STEM **STEM**
- Gender Action Toolkit **STEM** **C**
- Girls in STEM Toolkit **STEM**
- Stile Education **STEM** **C**
- Primary Connections **S** **C**
- Science Program Exciting Children Through Research Activities (SPECTRA) **S** **C**
- Sustainable Futures **S** **C**
- Intel Education Teaching Tools and Resources **T** **C**
- Young ICT Explorers **T** **C**
- Engquest **E** **C**
- Choose Maths **M**
- Have Sum Fun Online **M** **C**
- Mathletics **M** **C**
- Mathspace **M** **C**
- Maths Pathway **M** **C**

DEVELOPMENT & MENTORING

- BrainSTEM **STEM** **C**
- Curious Minds **STEM**
 - Deakin Girls as Leaders in STEM **STEM** **R**
- Girl Power in STEM **STEM**
 - In2science **STEM** **C** **R**
- STEM work experience program for young women **STEM**
 - Women in STEM and Entrepreneurship Program **STEM**
 - Young Indigenous Women's STEM Academy **STEM**
 - Inspiring Future Women Leaders in STEM **S**
- RMIT Girls in IT Year 10 Work Experience Program **T**
- Tech Girls Movement **T**
 - Technovation **T**

EVENTS

- Ballarat Tech School Girls in STEM Program **STEM** **R**
 - Day of STEM **STEM**
- Gippsland Tech School Foodbytes Challenge **STEM** **R**
- Girls Invent Workshops **STEM**
 - It Takes a Spark EduConference **STEM**
 - RMIT Women in STEMM role model presentations **STEM**
- Shell Questacon Science Circus **STEM** **C** **R**
- STEM Camp for Girls **STEM**
 - STEM Sisters **STEM** **R**
 - BASF Kids' Lab **S** **C**
 - GATEWAYS **S** **C**
 - Girls in Physics breakfasts **S** **R**
 - PrimeSCI! **S** **C**
 - Bebras Australia Computational Thinking Challenge **T** **C**
- Code Club **T** **C**
- Code like a Girl **T**
- Coder Dojos **T** **C**
- Girls in ICT Day **T**
- Go Girl, Go for IT **T**
- Junior Engineers Females in STEM **T**
- Programming Challenge for Girls (PC4G) **T**
- Robocup Junior **T** **C**
 - Teaching Kids to Code **T** **C**
- Girl Guides Association of Victoria **E**
- Girls in Aviation Day **E**
- Power of Engineering **E**
 - Robogals **E**
- MAV Games Days **M** **C**
 - MAV Girls in STEAM Day **M**
 - MAV Maths Camp for regional year 10 students **M** **C** **R**
- National Mathematics Summer School **M** **C**

TERTIARY

SCHOLARSHIPS & GRANTS

- ECU Defence Science and Technology Group – Women in STEM Scholarships **STEM**
- Graduate Women Victoria **STEM**
- hipages Scholarship for STEM Students **STEM**
- QUT Women's Re-Entry Scholarship (WRE) **STEM**
- Swinburne Goldsmith Family Women in STEM Scholarship **STEM**
- UNSW Shelley Phillips Scholarship **STEM**
- Melbourne St Hilda's College Rural Opportunity Scholarship for Women **S R**
- Melbourne Women in Physics Award **S**
- RMIT Mondo Women in Geospatial Sciences Scholarship **S**
- BizCover Women in IT scholarships **T**
- Deakin IGNITED Scholarship **T**
- Federation Women in Information Technology/Women in Engineering Scholarship **T**
- La Trobe Women in Cybersecurity Scholarship **T**
- La Trobe Women in Data Science Scholarship **T**
- La Trobe Women in IT Scholarship **T**
- Monash Women in Information Technology Scholarship **T**
- Swinburne Women in Vocational Education ICT Scholarships **T**
- Women Techmakers – The Scholars Program **T**
- Amelia Earhart Fellowship Awards for Women **E**
- ANU Kim Jackson Scholarship **E R**
- Curtin BHP Billiton Women in Engineering Undergraduate Scholarship **E**
- Curtin McMullen Nolan Group Scholarship for Women in Surveying **E**
- Deakin Barwon Water Scholarship for Women in Stem **E**
- La Trobe Women in Engineering Scholarship **E**
- Melbourne McPherson Family and Invergowrie Foundation PhD Scholarship for Women **E R**
- Melbourne Nicola Andrews Scholarship **E**
- Monash University Women in Engineering Scholarship **E**
- RMIT Alan and Mary Longstaff Women in Engineering Scholarship **E R**
- RMIT Boeing Scholarship **E**
- RMIT CitiPower and Powercor Women in Electrical Engineering Scholarship **E**
- RMIT SEH Women in Engineering Scholarship **E**
- Swinburne Alba Sorati Scholarship for Women **E**
- Swinburne Claire Sorati Scholarship for Women **E**
- Swinburne Women in Maritime Engineering Scholarship **E**
- Tasmania Women in Seafaring Scholarship **E**
- UNSW ARUP Women in Engineering Scholarship **E**
- UWA Western Power Women in Electrical Engineering Scholarship **E**

NETWORKS

- Swinburne Women in STEM **STEM**
- Victoria University Women and Science in Engineering **STEM**
- Women in Science and Engineering Melbourne **STEM**
- Monash Women in Physics and Astronomy **S**
- Monash Women in Science **S**
- RMIT Society for Women in Information Technology **T**
- Swinburne Platform Female **T**
- Swinburne Women in ICT **T**
- Female Engineers at Monash **E**
- Women in Engineering @ Swinburne **E**

COMPETITIONS & AWARDS

- The Simon Marais Math Competition **M C**

INTERNSHIPS, DEVELOPMENT & MENTORING

- ATSE Industry Mentoring Network in STEM **STEM C**
- RMIT HDR Women in STEM Academic Mentoring **STEM**
- RMIT Women in STEMM Student Champion Positions **STEM**
- Grad Girl **T**
- AINSE WISE School **E**

PROFESSIONAL

RESOURCES

- Australian Early-Mid Career Researcher Forum **STEM** **C**
- STEMist **STEM**
- STEM Women **STEM**
- veski Inspiring Women Portal **STEM**
- Women in Life Sciences Database **STEM**
- Women in the Science Research Workforce – Report and Toolkit **S**

SCHOLARSHIPS & GRANTS

- veski Inspiring Women Fellowships **STEM**
- Georgina Sweet Australian Laureate Fellowship **S**
- L'Oréal-UNESCO Women in Science Fellowships **S**
- NHMRC Women in Health Science funding **S**
- MYOB developer **T**

COMPETITIONS & AWARDS

- Woman Manufacturer of the Year **STEM**
- SheStarts **T**

EVENTS

- MAGIC 2020 **STEM**
- IUPAC Global Women's Breakfast #GWB2020 **S**
- Women in Tech Australia **T**

NETWORKS

- Her Research Matters **STEM**
- Male Champions of Change in STEM **STEM**
- Science in Australia Gender Equity **STEM**
- Universities Australia Executive Women Group **STEM**
- Women in STEMM Australia **STEM**
- Young Women in Bio (YWIB) **STEM**
- Inclusion, Diversity and Equity in Astronomy Chapter (IDEA) **S**
- National Space Society of Australia – Women in Space Chapter **S**
- Women in Chemistry Group **S**
- Women in Science Parkville Precinct (WiSPP) **S**
- Vic ICT for Women **T**
- Women in Blockchain **T**
- Women in Data **T**
- Women in Machine Learning and Data Science **T**
- Women in Engineering – Engineers Australia **E**
- Women in Manufacturing Network (WIMN) **E**
- Women in Mining Network **E**

INTERNSHIPS, DEVELOPMENT & MENTORING

- Homeward Bound **STEM**
- STEM Sisters **STEM**
- Superstars of STEM **STEM**
- The WILD Program **STEM**
- veski Inspiring Women Industry Internships **STEM**
- veski STEM sidebyside **STEM**
- E3: Empower, Evolve, Escalate **T**
- Females in IT and Telecommunications Mentoring **T**
- Mentor(SHE) **T**
- Women in Manufacturing Mentoring Program **E**

CROSS-SECTIONAL

- 500 Women Scientists **STEM**
- Women in STEM, Australia's Science Channel **STEM**
- Girl Geek Academy **T**
- Girls in Tech **T**

DEFINITIONS

EVENTS: includes camps, seminars, workshops

RESOURCES: includes activities, content, curriculum, databases, documents, pledges

COMPETITIONS & AWARDS: includes prizes

SCHOLARSHIPS & GRANTS: includes fellowships

INTERNSHIPS, DEVELOPMENT & MENTORING: includes apprenticeships, training, work experience

S Science: includes biology and life sciences, chemistry, environmental science, physics

T Technology: includes coding, computer science, information technology, programming

E Engineering: includes aerospace, civil, electrical, environmental, mechanical

M Mathematics: includes statistics

STEM includes multiple aspects of STEM

C Co-educational: programs working with all genders

R Regional: programs with a regional focus