THE BALLARAT TECH SCHOOL

Our Future Vision & Mission

Our Vision

Inspiring young people to connect to their future through curiosity, discovery and innovation in STEM.

Our Mission

To bring education, industry and community together in an immersive environment, driven by hands-on STEM exploration. We use design thinking and future skills to transform learning, challenging students to solve real world problems and preparing them for the future of work.

Priority & Emerging Focus Areas

Technical Skills:

- Scientific Inquiry
- Prototyping
- Design
- Computer Science
- Hardware Systems
- Software Systems

Personal Skills:

- Critical Thinking
- Creativity (Innovation)
- Problem Solving
- Collaboration
- Communication
- Systems Thinking

Industry Sectors:

- Clean Economy & Renewable Energy
- Digital Economy
- Cyber Security & AI
- Manufacturing
- Agritech

SCIENCE: SEEK THE ANSWER TECHNOLOGY: EMBRACE THE NEW ENGINEERING: SOLVING THE PROBLEM MATHEMATICS: UNDERSTAND THE WORLD

Roadmap to Success

Objective 1: Increased student participation in STEM Subjects

Strategies:

- **Go Wide (Years 7 - 9)**
  Inspire and engage all students
- **Go Deep (Years 9 - 11)**
  Skills extensions and pathways for engaged students
- **Go Career (Years 10 - 12)**
  Post school pathways focus

Objective 2: Quality school engagement with leadership & teachers

Strategies:

- **Programs are connected and immersive**
  Provide quality for all stakeholders
- **Schools committed to coordinated collaboration**
  Amplified voice in program co-design
- **Expand offsite programs**
  Develop Remote & Virtual Initiative

Objective 3: Accelerate understanding of technology

Strategies:

- **Develop skills roadmap**
  Future focused
- **Tech supports skills pathways**

Objective 4: Increased Host and Industry collaboration

Strategies:

- **Programs link to host pathways**
- **Engage with local industry tech**
- **Programs have industry links and real-world challenges**

Objective 5: Promote holistic community engagement

Strategies:

- **Increase awareness of, and active participation in, STEM opportunties for young people**

BALLARAT
TECH
SCHOOL

Strategic Plan 2023 - 2027

Steps to Success

Inclusion

Innovation

Excellence

Empowerment

Collaboration

Objective 1: Increased Student participation in STEM Subjects

Strategy: Go Wide (Years 7 - 9)

Inspire and engage all students

Tactics

- Programs designed to cover a spread of student capabilities and interests
- **CORE programs** inspire curiosity in STEM skills and technology and suited to/bookable by whole year level groups
- An accesible program experience available to every partner school student, at least once a year, every year
- Students can opt in to specific "skill deepening" days

Strategy: Go Deep (Years 9 - 11)

Skills extensions and pathways for engaged students

Tactics

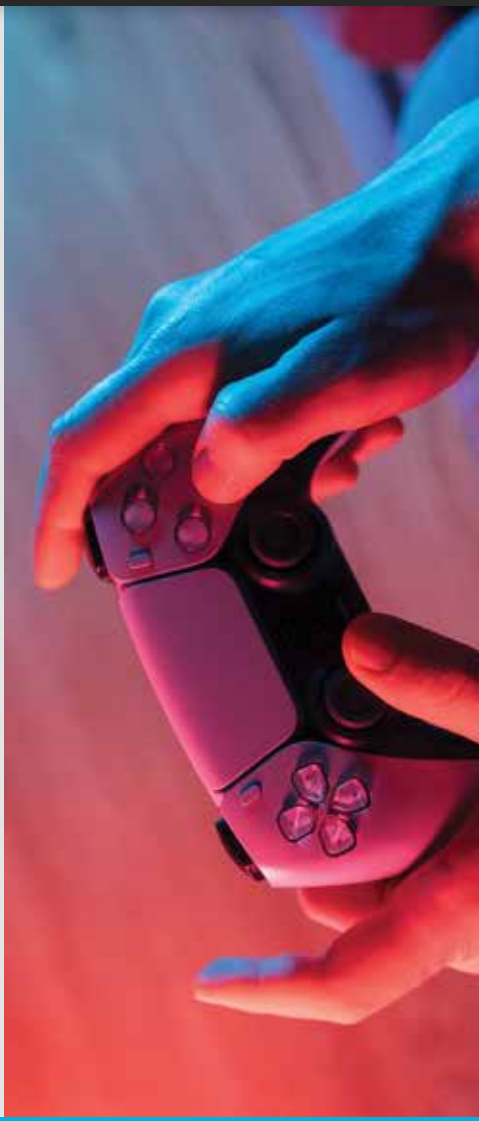
- Programs have a specific future skill focus, suited to elective classes who can embed into school learning
- Programs build on core skills, designed for students who want to learn more through repeat visits and/or opt in skill days
- Programs designed to showcase industry through real world industry partner challenges
- Increase specialist program streams of 4-8 days in duration - students apply/identified to attend e.g. Girls in STEM

Strategy: Go Career (Years 10 - 12)

Post school pathways focus

Tactics

- Programs designed to Target VCE, VCE VM & VET requirements for further study
- Tech School skills/resources used to improve student assessment
- Programs designed to have industry links and career explicit pathways
- Demonstratable current and/or future job opportunities in local industry



SCIENCE: SEEK THE ANSWER TECHNOLOGY: EMBRACE THE NEW ENGINEERING: SOLVING THE PROBLEM MATHEMATICS: UNDERSTAND THE WORLD

Steps to Success

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Objective 2: Quality school engagement with leadership & teachers

Strategy: Programs are connected and immersive
Provide quality for all stakeholders. Inspire & engage all students

Tactics

- Consolidate core program offerings to provide simplier pathways
- Increase multi-school, multi-day specialist offerings
- Partner School Teachers engage in pre-visit professional learning for core programs
- Timetable regular staff collaboration days for program development

Strategy: Schools committed to coordinated collaboration
Amplified voice in program co-design

Tactics

- Tech School leadership regular meets with school leadership
- BTS staff plan & co-design with school curriculum leaders
- Schools support and value internal Tech School program "Coordinators"
- Teachers offered & engage in professional learning opportunities

Strategy: Expand offsite programs
Develop Remote & Virtual initiative

Tactics

- Engage in skills & tech audits to determine professional learning priorities
- Specialist student and teacher learning opportunities created
- Enhance "shareable tech" scheme to support school learning priorities

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Objective 3: Accelerate understanding of technology

Strategy: Develop skills roadmap
Future focused

Tactics

- Programs clearly identify skills pathways up through year levels
- Skills shown and taught as possible/part/practical

Strategy: Tech supports skills pathways

Tactics

- Emerging tech acquired to support skills identified in roadmap
- Tech scales up from current & accessible to future focused applications

Steps to Success

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Objective 4: Increased Host and Industry collaboration

Strategy: Programs link to host pathways

Tactics

- Increased exposure to host environments, facilities and expertise
- Clear pathways to further education opportunities with host

Strategy: Engage with local industry technologies

Tactics

- Exclusive information sessions for / with industry
- 2 way sharing of tech-knowledge, challenges, future direction and professional learning

Strategy: Programs have industry links & real-world challenges

Tactics

- Identify & co-design real industry challenges to solve in programs
- Immersive gamification of challenges to increase stakeholder investment in programs

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Objective 5: Promote holistic community engagement

Strategy: **Increase awareness of, and active participation in, STEM opportunities for young people**

Tactics

- Create shared student & carer engagement and learning opportunities
- These opportunities share pre, during and post specialist program information, achievements and future possibilities
- Encourage community events that increase knowledge and understanding of Tech Schools