

CONNECTING BUSINESSES WITH COMMUNITIES



STEM IS FOR EVERYONE

Science, technology, engineering, and mathematics (STEM) are deeply connected to everything we do. STEM skills and professions shape our world and improve our daily lives in countless ways.

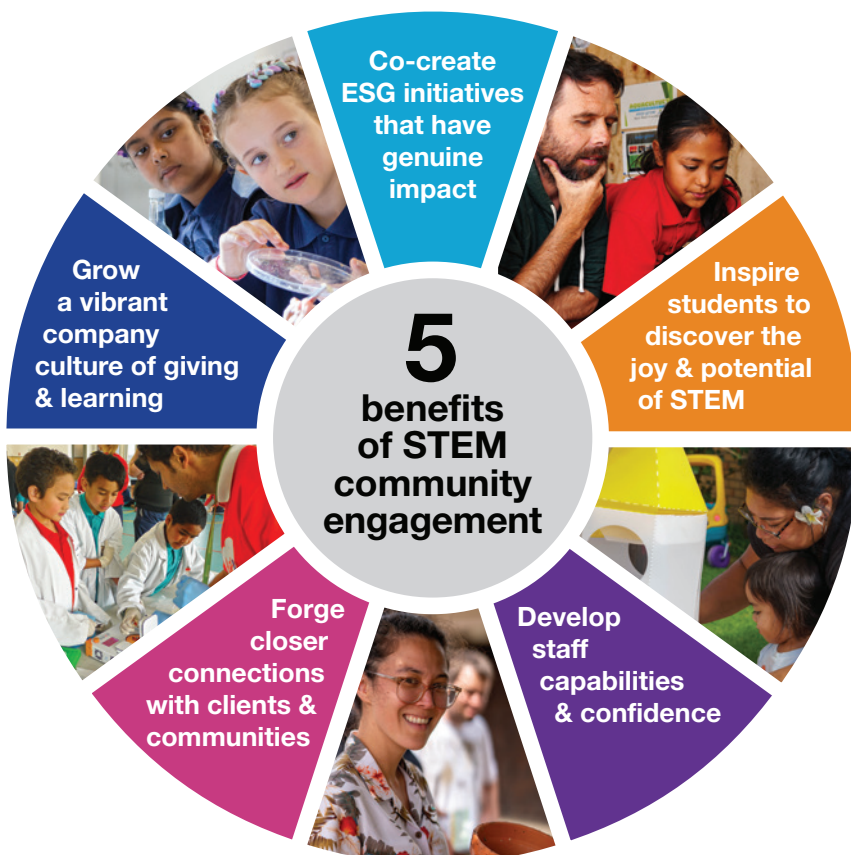
We need STEM to drive growth and innovation in New Zealand.

Equitable STEM access ensures everyone can enjoy these benefits and support wellbeing in our communities.

Investing in STEM community engagement is an investment in Aotearoa's future.



Why should businesses care about STEM community engagement?



Your business can't afford not to. Environmental, Social and Governance (ESG) considerations are increasingly driving business growth and customer expectations. STEM community engagement offers a powerful tool to create positive, sustained change within your community and to demonstrate your company's values to employees, clients and community stakeholders.

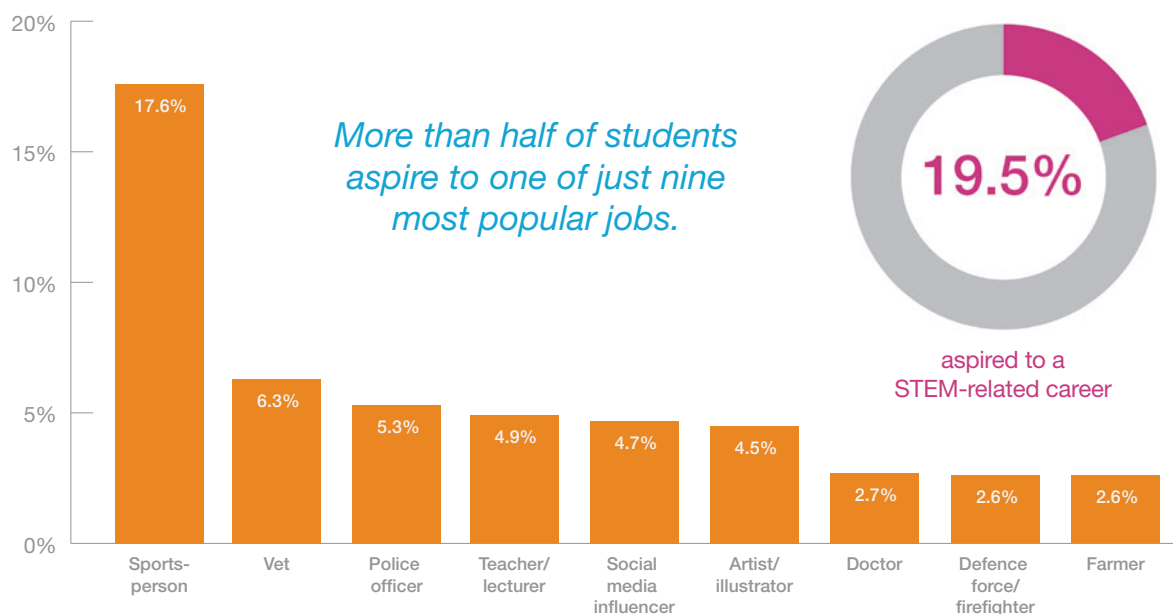
When your business invests in STEM community engagement, you contribute to a more sustainable, resilient community and a future-ready pipeline of local STEM talent.

It's a win-win for everyone.

THE FUTURE OF WORK DEPENDS ON US

When young people can't see all the careers that exist, they aspire to the few that they know.

Primary and intermediate-age children across NZ were asked to draw what they wanted to be when they grew up. Over 7,700 drawings were received.



Reference: Drawing the Future Report, TEC, Feb 2020

Having your team engage with young people provides a unique opportunity to broaden their horizons and inspire students to explore diverse career pathways. Engaging with families and teachers collaboratively ensures that students are well supported and empowered to become the next generation of innovative thinkers and leaders.

STEM skills are more in demand than ever. Yet student achievement is dropping. For Māori and Pasifika, the gap continues to grow.

To grow the local talent that we need to thrive in the future, businesses must support all under-represented communities to see themselves in STEM.

Investing in STEM community engagement helps to break down stereotypes and make STEM more accessible to a wide variety of students. It aligns with your business's diversity and inclusion initiatives, promoting DEI in the workplace and improving relationships with community stakeholders.

Future workforce

By 2040, Māori and Pasifika will make up 40% of our nation's young (under 35) workforce.

40%

Current skills

Less than 8% of students currently enrolled in STEM-based tertiary studies identify as Māori and/or Pasifika.

8%

OPPORTUNITIES FOR STEM ENGAGEMENT ARE ENDLESS — WHERE WILL YOU FIT IN?

Throughout a student's education journey, there are many opportunities to engage with STEM. A "one-and-done" approach doesn't cut it – students benefit most from sustained, positive exposures to a vast array of role models and genuine connections to real-world STEM.

STEM Alliance Aotearoa has nearly a decade of experience working with educators, not-for-profits, and businesses to enhance STEM engagement in our communities. See how STEM professionals and businesses can invest support in all stages of a student's journey.



Ecologists from **Whitebait Connection** helped children from **Aorere Kindergarten** explore their local creek.

The project involved a community stream clean with whānau, **Papatoetoe West School**, **Aorere College** and **Auckland Council**. Children were inspired to care for the environment and became more curious about their surroundings.



East Tamaki Primary School teamed up with **University of Auckland** entomologists and **Fisher & Paykel Healthcare** engineers to investigate guava moth pests in their school garden.

Students trialled different pest control methods and then 3D-printed their own moth trap prototypes.



Papakura Intermediate School drew inspiration from mātauranga Māori to design an astronomically-aligned playground with support from **Playground People Ltd** mentors.

This project introduced students to careers in construction, engineering, landscape design and more. It also created an asset the school can use for years to come.



Ōtāhuhu College strives to give students authentic STEM learning opportunities. They work with partners like **Kiwirail**, **Mainfreight**, **Media Design School** and **MOTAT** through research projects, competitions, STEM expos and site visits.

Sustained exposure and support to grow rangatahi's identity and confidence in STEM is crucial to influencing their future study and career choices.



These **Manurewa High School** students developed their own algae biofuel, which they used to power **EVelocity** go karts.

Working with mentors from **Z Energy**, **Unitec**, **Watercare** and more, rangatahi were able to explore innovative technologies and understand how they could benefit and transform their communities.

EXPLORE

Ignite curiosity

ACQUIRE

Make STEM fun, connect fun with learning

ASPIRE

Showcase STEM careers, break down stereotypes

DEVELOP

Grow practical skills, encourage aspirations

THRIVE

Support transitions to work

Industry engagement could resemble ...

- Supporting field trips
- Family STEM days in local ECEs and schools
- Sponsoring resources for STEM exploration



- Project-based mentoring
- Sponsoring, judging or mentoring STEM competitions
- Sponsoring facilities or resources to support STEM teaching



- STEM expos
- Workplace site visits
- Supporting and sponsoring teacher professional learning and development
- Sponsoring devices and STEM equipment



- Career expos
- Mentoring
- Workplace visits and activations
- Sponsoring or developing curriculum-aligned STEM resources
- Project collaborations



- Internships
- Scholarships
- Work placement opportunities
- Study/early career mentoring and support
- Creating earn-to-learn pathways

PARTNERS IN STEM

For a bespoke STEM community partnership designed specifically around your organisation's interests and engagement goals, talk to us about becoming part of the Community Investment Programme (CIP).

Community STEM projects grow long-term collaborations between STEM businesses, schools and community organisations to tackle a local challenge and create sustained, impactful change in your community.

For more ways to be part of STEM Alliance Aotearoa, see our partnership options on page 5.



" Empowering students with STEM skills opens up a world of opportunities. When businesses get involved, they help bridge the gap between education and industry.

Satya Nadella, CEO – Microsoft



There's no shortage of engagement activities that businesses can support. STEM Alliance has the expertise to identify the right projects to achieve your goals.

Our process for helping you invest effectively in STEM community engagement:



PLAN

We use outcomes mapping to piece together what you already do – or would like to do – to create a cohesive strategic plan that your team can follow to start engaging with communities more effectively.



CONNECT

We utilise our cross-sector networks to connect your business with the schools, outreach programmes and events that align with your engagement goals.



ENGAGE

We support businesses to grow staff capabilities through training in science communication, mentoring and community engagement.



EVALUATE

We use outcomes harvesting and mixed-method evaluation techniques to capture the social value of your STEM community engagement efforts – ready for you to share, celebrate and build upon in the future.

Lead the change we need to see

JOIN STEM ALLIANCE

Our team will support your organisation to integrate STEM community engagement initiatives into your business plans and strategies, and more importantly, to follow through with effective action and monitoring.

Partner with us to get the most out of your ESG investments and together, let's inspire the next generation of local, diverse STEM talent.

	STEM Alliance Supporter	STEM Alliance Partner	STEM Alliance Premium Partner
	Investment \$1,000/yr	Investment ~ \$3-5k/yr	Investment ~ \$10-15k/yr
Use of STEM Alliance Supporter logo	✓		
Access to STEM Alliance Network	✓	✓	✓
Priority access to STEM Alliance events	✓	✓	✓
Collaboration opportunities	✓	✓	✓
Annual STEM Alliance outcomes showcase	✓	✓	✓
A strategic engagement plan and expert support to integrate STEM community education into your business		✓	✓
Annual review of engagement plan and recommendations		✓	✓
Brand association and use of STEM Alliance Partner logo		✓	✓
Invite to partner-only events		✓	✓
Premium brand placement on website and communications			✓
Community engagement training for staff			✓
Outcomes mapping and outcomes monitoring support			✓
Annual outcomes snapshot specifically designed for your business			✓

Contact us



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