

techtrails

INSPIRING FUTURE SKILLS



STEMpower 

Techtrails Information Pack



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Techtrails Project Manager

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About our Techtrails STEM Programs

Techtrails STEM School Incursions

Techtrails is an interactive school incursion for Western Australian primary and secondary school students. Designed to generate passion, excitement and curiosity to inspire young people to consider careers in the world of science, technology, engineering, maths (STEM) and innovation. Our focus is showcasing amazing women and male allies working in these fields, and to empower young people, and particularly girls to see themselves in these careers.

We leverage our extensive industry networks to source Western Australia's most inspirational professionals and entrepreneurs to talk to students about their career journey, what a 'day in their life' (eg. radio astronomer) looks like, provide curated hands on activities to give students experience and exposure, and to show students how to turn their passion into a successful future career.

Watch our [Techtrails Overview Video](#) to learn more about our STEM School Incursions.

Techtrails Parent & Teacher Events

Learning Together: STEM for Parents, Teachers, and Community

Our Techtrails Parent & Teacher Events - **Learning Together: STEM for Parents, Teachers, and Community** focuses on a comprehensive approach to STEM (Science, Technology, Engineering, and Mathematics), where we see these disciplines not merely as subjects, but as the foundational elements shaping our vibrant futures.

Through our positive role modelling and new STEMpower Platform we showcase amazing women and allies in STEM and innovation. This is about more than just academic achievement; it's about fostering a community where First Nations knowledge meets western technology, where gender equity in STEM and innovation fuels Australia's economic growth, and where every student, regardless of background, is empowered with 21st-century skills.

By marrying diverse learning styles with accessible resources, and aligning personal interests with STEM and innovation careers, were not just closing the education gap—we're opening a gateway to limitless possibilities, for everyone.

Our mission extends to dispelling myths around gender and cultural biases, aligning students' interests with STEM and innovation careers, and empowering their career influences with knowledge sharing and the necessary tools and resources. This holistic strategy is designed to enlighten, relate, motivate, and impact students, educators, parents, families, community leaders, and industry making STEM and innovation an inclusive, engaging, and inspiring field for all.

STEMpower Platform - Our knowledge toolkit!

Launching early March 2025

Sign up to our [Techtrails Newsletter](#). **It's FREE!**

Be the first to access our STEMpower Platform, keep up-to-date with the latest Techtrails news, become a speaker or volunteer at our Techtrails events, meet amazing role models in STEM, and get involved in STEM Events happening across WA.

How can you help as a Role Model, Volunteer or Career Influencer?

- **Speak at a Techtrails STEM School Incursion or Parent & Teacher Event**
- **Volunteer at a Techtrails STEM School Incursion or Parent & Teacher Event**
- **Attend a Parent & Teacher Event - It's about knowledge sharing!**

Through sharing your experiences, expertise and career journey, you are helping to spark inspiration and broaden the understanding of STEM and innovation future skills and future jobs for students and career influences. This isn't just an opportunity to learn; it's an invitation to become part of a community where every question leads to a new path and every idea has the potential to change the world.

Together, we embark on a digital journey designed to spark curiosity and set ambitions aflame in the rapidly evolving landscape of STEM and innovation careers. Whether it's dreaming of navigating the mysteries of space with NASA, exploring the depths of the ocean, revolutionising digital tech, or applying innovative solutions back home on country, STEM unlocks a universe where those dreams are just the beginning.

In a world where the careers of tomorrow are being shaped by the technologies of today, understanding the vast array of possibilities within STEM becomes crucial, and this is where we need your help.

This is about more than just academic achievement; it's about fostering a community where First Nations knowledge meets western technology, where gender equity in STEM fuels Australia's economic growth, and where every student, regardless of background, is empowered with 21st-century skills. By marrying diverse learning styles with accessible resources, and aligning personal interests with STEM and innovation careers, we're not just closing the education gap—we're opening a gateway to limitless possibilities, for everyone.

Target Audiences:

Each of our incursions and events have different target audiences, which have been highlighted below:

- **Techtrails STEM School Incursions (Primary Schools):** Year 5 & 6 students with approx 75% girls
- **Techtrails STEM School Incursions (High Schools):** Year 8 & 9 students with approx 75% girls
- **Techtrails Parent & Teacher Events:** Career Influences including parents, families, teachers, educators, career advisors, community leaders, and industry representatives.

What time commitment is required:

We really appreciate you volunteering your time to inspire the next generation and support career influences with intergenerational knowledge sharing.

We have identified below the approx time commitments that we ask for to ensure smooth and successful events.

Keynote Speakers - Techtrails STEM School Incursions:

- Our keynote speakers start off the day for our 'Techtrails STEM School Incursions' which run from 7:45am - 3:00pm.
- Your allocated speaking time on the day is approx 10-15 minutes.
- We do ask that you commit to a minimum of 2.5 hours on the incursion day as this allows for set up time, presentation testing, photo opportunities, and questionnaire completion.
- Pre-incursion work, you will need to devote time to preparing your presentation in advance.
- Attend a virtual speaker meeting prior to the 'Techtrails STEM School Incursion' day to meet the speaker team, ask questions, and discuss any final event changes/updates.
- Complete a Techtrails Speaker Application Form. We will publish your headshot, bio, and company logo in the Student Handbooks.
- Complete our media and data consent forms. We need this to gather your valuable insights and expertise!

Role Model (full day speakers) - Techtrails STEM School Incursions:

- Our Role Models present multiple sessions across the school day, which runs from 7:45am - 3:00pm.
- You will be asked to present your presentation approx 5-6 times across the day, so that each group gets the opportunity to hear about your career journey.
- Each group session is approx 40 minutes long, which allows time for a hands on activity, use/showcase technology, use of visuals or props (show, touch, feel) etc.
- We do ask that you commit to the full 'Techtrails STEM School Incursion' day as this includes your set up time, presentation and technology testing, photo opportunities, questionnaire completion, and teacher networking.
- Pre-incursion work, you will need to devote time to preparing your presentation in advance.
- Attend a virtual speaker meeting the week before the 'Techtrails STEM School Incursion' to meet the speaker team, ask questions, and discuss any final event changes/updates.
- Complete a Techtrails Speaker Application Form. We will publish your headshot, bio, email, and company logo in the Student Handbooks.
- Complete our media and data consent forms. We need this to gather your valuable insights and expertise!

Volunteers (full day) - Techtrails STEM School Incursions:

- Our volunteers support our Role Models and Techtrails Project Manager across the day to ensure everything runs smoothly from 7:45am - 3:00pm.
- We do ask that you commit to the full 'Techtrails STEM School Incursion' day as this includes set up time, presentation and technology testing, photo opportunities, questionnaire completion, and teacher networking.
- You will be asked to support our Role Models with classroom set up, presentation testing, tech issues, session timing, and session activities.
- The Techtrails Project Manager will ask for your support with set up and testing of the welcome presentation, handing out student handbooks and prizes, registering student attendance, and distribution and collection of pre and post event surveys.



Volunteers (full day) - Techtrails STEM School Incursions: (continued)

- Assist students with survey questions and ensuring all survey questions have been completed.
- Engage in conversations across the day with students, teachers, and VIPs about your career journey/study.
- Pre-incursion work, attend a virtual meeting the week before the 'Techtrails STEM School Incursion' to meet the speaker team, ask questions, and discuss any final event changes/updates.
- Complete a Techtrails Volunteer Application Form.
- Complete our media and data consent forms. We need this to gather your valuable insights and expertise!

Panel Members - Parent & Teacher Events: (Learning Together: STEM for Parents, Teachers, and Community)

- We ask that you attend the event from start to finish.
- The panel discussion is allocated approx 30 minutes on the event day.
- We do ask that you commit to a minimum of 4 hours on the event day as this allows for panel member meet and greet, set up time, presentation testing, photo opportunities, questionnaire completion, and networking.
- Pre-incursion work, you will need to devote time to meet your panel host and to preparing your answers to the panel questions in advance.
- Attend a virtual speaker meeting two weeks before the Parent & Teacher Event to meet panel members, ask questions, and discuss any final event changes/updates.
- Complete a Techtrails Speaker Application Form. We will publish your headshot and bio across event marketing and communications.
- Complete our media and data consent forms. We need this to gather your valuable insights and expertise!

Volunteers - Parent & Teacher Events: (Learning Together: STEM for Parents, Teachers, and Community)

- We do ask that you attend the event day from start to finish.
- Our volunteers support our Techtrails Project Manager before, during and after the event day to ensure everything runs smoothly.
- We do ask that you commit to a minimum of 4 hours on the event day as this allows for volunteer briefing meeting, set up of venue and catering (food and beverages), set up of registration desk and guest attendance, presentation and technology testing, photo opportunities, questionnaire completion, and networking.
- You will be asked to assist with distribution and collection event surveys.
- Pre-incursion work, attend a virtual meeting the week before the Parent & Teacher Event to go through the final event run sheets, jobs list, event logistics, changes/updates and to ask any questions.
- Complete a Techtrails Volunteer Application Form.
- Complete our media and data consent forms. We need this to gather your valuable insights and expertise!

Important Information

Working With Children Checks (WWCC)

As of the 1 January 2024, all 'Techtrails STEM School Incursion' keynote speakers, role models, and volunteers **MUST** have a valid WWCC to enter a school and to ensure compliance with the ***Child Protection and Safety Framework***.

To ensure we meet compliance regulations you will need to meet the following criteria:

- Have a valid WWCC card
- Supply a copy of your WWCC card to the Techtrails Project Manager
- Collect a WWCC Application Form from the WITWA Hub, 45 St Georges Terrace, Perth WA 6000. *(if you do not have a WWCC or it has expired)*
- Submit a WWCC application. *(if you do not have a WWCC or it has expired)*
- Send your WWCC Application lodgement letter to the Techtrails Project Manager
- Once you receive your WWCC card, supply a copy to the Techtrails Project Manager.

Please send all WWCC lodgement letters and copies of cards to techtrails@witwa.org.au

Welcome!
We look forward to
meeting you soon.

Contact us: Techtrails@witwa.org.au

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Australian Government

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