



Junior 
Engineers

YOUR SCHOOL'S
DIGITAL TECHNOLOGIES
EDUCATION AND TRAINING

partner

Your trusted technology and engineering partner

The next generation of entrepreneurs, digital artists, cyber security and tech superstars are learning their craft now.

Partnering with schools to set students up for success in future careers, Junior Engineers can help ensure your students are not left behind.

Established in 2013, Junior Engineers was one of the earliest providers of age-appropriate STEM programs for kids. We offer digital technologies syllabus meticulously tailored to learning abilities and cognitive capability across the K-12 curriculum.

Our school partnerships:

- Build capability and confidence of teaching staff, through quality professional development and lesson-ready teaching tools.
- Provide exceptional curriculum, developed by educators, and tailored to student experience and ability
- Flexible delivery modes to match your needs: OSCH programs, incursions, boot camp skill extensions, and holiday programs.



TESTIMONIAL:



We've partnered with Junior Engineers to bring some key platforms within our STEM learning initiatives to life. We've really valued the knowledge and experience of the Junior Engineers team to tailor programs, deliver engaging, hands-on, design thinking workshops to our boys. We look forward to expanding our innovative and immersive programs with Junior Engineers in the future.

TANYA NIELSEN

Principal Project Officer - STEAM & Related Learning
Brisbane Grammar School

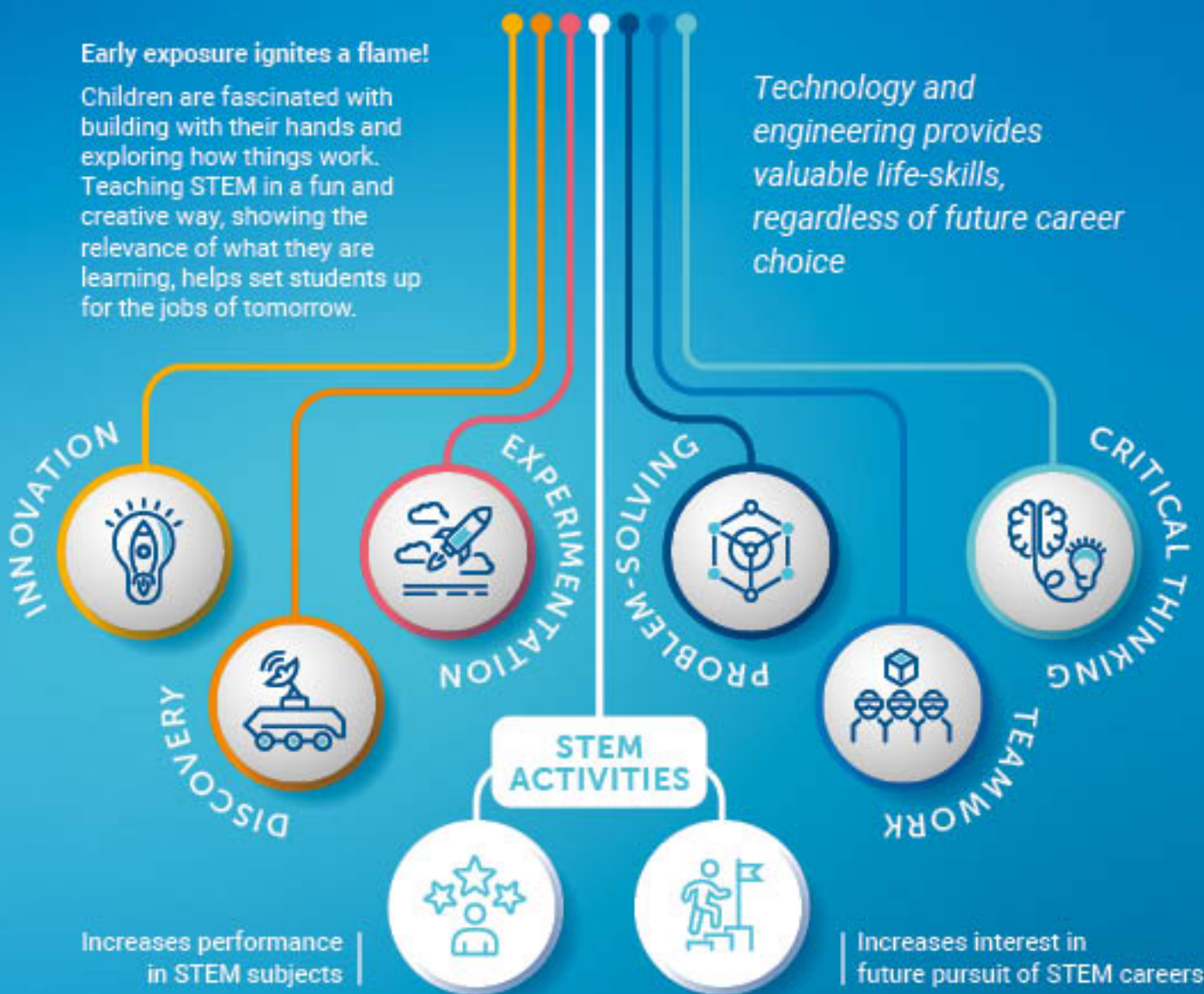


Why invest in STEM

Early exposure ignites a flame!

Children are fascinated with building with their hands and exploring how things work. Teaching STEM in a fun and creative way, showing the relevance of what they are learning, helps set students up for the jobs of tomorrow.

Technology and engineering provides valuable life-skills, regardless of future career choice



189% of parents rate technology as the most important skill for future careers

STEM-skilled jobs are growing 1.5 times faster than any other sector

STEM SKILLS SHORTAGE

AUSTRALIA | 2024
100 000 vacancies in IT expected.

1:7       
There are currently seven job openings for every IT graduate in Australia.

WE KNOW, WHEN LEARNING IS FUN, NEW CONCEPTS STICK!



why Junior Engineers?

Our mission is to deliver the ultimate experience in digital technologies for kids.

- Founded in 2013 – over 10 years of continuous delivery of engaging, hands-on technology and engineering programs in schools across the country
- Award-winning, proprietary syllabus that builds on concepts learnt in-class, developed by experienced digital teachers
- Block and text-based coding programs using the world's most popular coding languages, perfectly tailored to the age and experience of our students
- 98% school retention rate, over 200 partnering schools at any given time
- Qualified (and blue-card approved), passionate instructors who undergo regular professional development

We're proud to have retained 98% of our school partners in our organisation history, testament to the quality product, exceptional instructor, and valued relationship we cultivate with our schools.

TESTIMONIAL:

I have been most impressed. As the robotics coordinator at St Peters Lutheran College I felt that we needed some more coding options for our students. Junior Engineers seemed to have the curriculum and small-group focus that I wanted for our students. From their first interactions with me I was assured that the Junior Engineers staff had the confidence and ability to tailor their programs to our needs.

SIMON CANFIELD








Robotics lead at St Peters Lutheran College



Our curriculum

Junior Engineers offers an award-winning, proprietary curriculum covering key technology learning areas in block and text coding, robotics and creative thinking. Program delivery includes options for online or face-to-face delivery; class or self-paced programs; term-long, multi-day and one-off incursions; group and one on one tutoring.

Our depth of knowledge of Digital Technologies curriculum and digital literacy covers key learning areas of:

 DIGITAL SYSTEMS	 DATA REPRESENTATION	 INVESTIGATING AND DEFINING
 GENERATING AND DESIGNING	 EVALUATING	 COLLABORATING AND MANAGING
 PRIVACY AND SECURITY	Flexibility to match your schools' needs with proven and engaging learning programs, honed through over 10 years of working with kids to make STEAM enjoyable and fun.	

JUNIOR ENGINEERS - CURRICULUM AT A GLANCE

Block Coding	Text Coding	Robotics	Creative
SCRATCH Terms, Holidays, Online, 1:1 GRADES 02-06 RANGE BEG-INT	PYTHON Terms, Holidays, Online, 1:1 GRADES 04-10 RANGE BEG-ADV	ARDUINO Terms, Holidays, Incursions. GRADES 07-10 RANGE INT-ADV	APP PROTOTYPING Holidays, Online, Incursions. GRADES 02-10 RANGE BEG-INT
MINECRAFT Terms, Holidays, Online, 1:1 GRADES 02-06 RANGE BEG-INT	ROBLOX Terms, Holidays, Online, 1:1 GRADES 04-10 RANGE INT-ADV	MICRO-BIT Holidays, Incursions. GRADES 02-06 RANGE BEG-INT	STOP MOTION Holidays, Incursions. GRADES 02-06 RANGE BEG-INT
MINITENDO Holidays, Incursions. GRADES 02-06 RANGE BEG-INT	JAVASCRIPT Terms, Holidays, Online, 1:1 GRADES 04-10 RANGE BEG-ADV	LEGO MINDSTORMS Holidays, Incursions. GRADES 02-06 RANGE BEG-INT	STEM EXPLORERS Holidays, Incursions. GRADES P-2 RANGE BEG

Detailed curriculum for each topic area are available.
 Email partnerships@jnengineers.com.au to order your copy.

Junior Engineers as a partner

Junior Engineers partnership models ensure you get maximum benefit and value from our relationship.

We work in tandem to define your key priorities, and tailor-design programs to deliver your learning objectives – whether they be incursion/extension, gifted and talented, extra-curricular, school holiday or professional development programs.

SCALABLE, ONLINE CODING SOLUTIONS

Teach coding in the classroom, teaching resources supplied, no coding knowledge required.

Game-changing, scalable online lessons, catering to all student experience levels - from beginner to advanced coding projects.

Select from text or drag-and-drop coding projects via our gamified CodeMonkey platform; or picture-in-picture CODEFLIX platform. Cost-effective site licensing includes planned learning programs, teacher dashboards, automated student reporting, progress tracking and cloud-based learning in each platform. Curriculum supports the delivery of Version 9 Digital Technologies curriculum.



INCURSION & EXTENDED LEARNING PROGRAMS

Build a two-day incursion program that is guaranteed to stretch your student's imaginations!

Choose from four exceptional curricula or build your own to deliver your STEM goals.



APP
PROTOTYPING



ARDUINO



CYBER
ESSENTIALS



GAME
DEVELOPMENT



PROFESSIONAL DEVELOPMENT FOR TEACHERS

Build teacher capability and confidence in delivery of the Digital Technologies curriculum.

Junior Engineers' Professional Development workshops will help to integrate the current national Digital Technologies Curriculum in your school:

- Build teacher capability and confidence.
- ✕ Provide resources and practical tips on embedding digital technologies learning into day-to-day operations.
- ⚠ Implement text and/or block-based coding into the classroom.
- + Coach the development of coding and robotics extension programs.
- Increase teacher capability to tailor delivery to student's capability
- > Tailor a program to your school's specific developmental needs





Embed technology
and engineering
programs in your
school with



Junior Engineers



🌐 jnrengineers.com.au/schools
✉ partnerships@jnrengineers.com.au
☎ 1300 089 344

