





Future jobs, future skills



Driving STEM skills in Western Australia

"We must lift the profile of STEM and ensure every Western Australian has an equal opportunity to take on jobs of the future. Postcode and gender should not determine your participation in STEM."

Hon Dave Kelly MLA, **Minister for Science;** Innovation and ICT

"The rapid technological advancement our world is experiencing is a tremendous opportunity to grow and diversify our State's economy. Skills in STEM ensure our workforce is adaptable, innovative and able to compete on the global stage."

Professor Peter Klinken AC, Chief Scientist of Western Australia

Western Australia is preparing to take advantage of the job opportunities provided by technological innovation and the changing nature of work. Our future workforce needs the right skills to ensure our global competitiveness and to enable us to address social and environmental challenges.

Skills for a thriving economy

Problem solving, critical thinking and digital skills will be relevant to all future jobs, and an estimated 75% of the fastest growing occupations require skills and knowledge in science, technology, engineering and mathematics (STEM).





Vision

A globally competitive and innovative workforce with the skills to drive Western Australia's technological future and create new job opportunities





65%

of children entering primary school today are expected to take up jobs that do not yet exist



It is estimated that today's students will on average have 17 jobs across five different careers



It is predicted that by 2030 workers will on average spend double the amount of time solving problems and 77 percent more time using science and mathematics skills

\$400 billion

Estimated economic gains from transitioning Australian workers at high risk of being displaced by automation to new areas in the workforce from 2015 to 2030

Goals

- **1.** Ensure students have STEM skills for the jobs of the future
- 2. Reskill the current workforce with the STEM skills required to embrace a technological future
- **3.** Break down barriers and ensure that everyone has the opportunity to participate in a STEM future



Working together

Future jobs, future skills is about all sectors working together to achieve our goals.



School education

Industry



and training (VET) Informal and community

Vocational education

Universities

STEM engagement

The *Future jobs, future skills* five pillars of action have been developed by the STEM Advisory Panel, under the leadership of WA's Chief Scientist, comprising experts from across the school education, industry, vocational education and training, university and community sectors.

Western Australian Government initiatives

Announcing \$3.359 million over four years

Support

teachers from priority schools to attend STEM professional learning

Develop

a State-wide STEM campaign to encourage take-up of STEM careers

Support

teachers and schools with a strong STEM culture to mentor others

Enhance

access to informal digital and technology programs

Building on more than \$25 million of existing initiatives

\$17 million to boost science in

primary schools

\$2 million

to support integrating coding into the curriculum

\$4 million

to support real-world problem solving in the classroom through the STEM Learning Project

\$2 million

from Rio Tinto to partner with South Metropolitan TAFE on a new curriculum around automation and technological advancements in mining

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