



**ACTI  
VATE**



**ATSE**

# A tech powered human driven future

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25-27 October 2022  
Sydney Masonic Centre  
Sydney Australia  
+ Live-streamed

Australian Academy of Technological Sciences & Engineering

The logo for ACTIVATE 2022, featuring the word "ACTIVATE" in white, bold, uppercase letters on a black, downward-pointing triangle.

# ACTIVATE

The logo for ATSE, featuring the letters "ATSE" in white, bold, uppercase letters on a brown, downward-pointing triangle.

## ATSE

25-27 October 2022  
SMC Conference Centre  
Sydney Australia  
+ Live-streamed

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# A tech powered human driven future

## What is ACTIVATE 2022?

From October 25-27, Australia's foremost impact network for leading applied scientists, technologists and engineers – the Australian Academy Technological Sciences & Engineering (ATSE) – is inviting global and Australian change-makers to a first-of-its-kind event.

As Australia grapples with the profound economic impact of COVID-19, we have a unique opportunity to position Australia as a technological powerhouse driven by a clean and sustainable economy, skilled workforce and world-class research activity and commercialisation.

On the heels of the Australian Federal Election, ACTIVATE 2022 will bring together 500 high-level representatives from across government, business and academia and feature keynote presentations from global and national future shapers.

Activate 2022 will:



- > **Unite** Australia's leading engineering and technology entrepreneurs to ensure ATSE helps build a sustainable and prosperous Australia
- > **Celebrate** local and global excellence in applied science, technology and engineering and award Australia's emerging innovators
- > **Activate** policymakers, CEOs and academics in charting a course for Australia's globally focused STEM workforce and catalyse a technology-powered, human-driven future

## Why now?

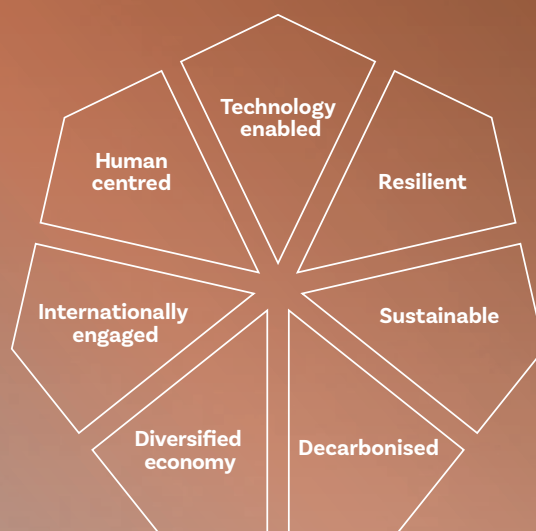
The coming decade will see the culmination of a unique set of challenges; decarbonisation of our economy, managing the transition of multiple industries, and training the workforce needed for an increasingly digital future. But right now, Australia is in the midst of a STEM skills shortage which will only grow more acute as technology increasingly drives the way we work and live. The clock is ticking!

- > **By 2023, digital technologies are estimated to contribute \$65 billion to Australia's economy**
- > **By 2024, we need 100,000 more digitally skilled workers**
- > **By 2025, we need 40,000 more engineers**
- > **By 2030, 25-46 per cent of existing jobs could be automated.**

Diversity in STEM remains an issue. Women, Culturally and Linguistically Diverse (CALD) and Aboriginal and Torres Strait Islander communities are inadequately recognised. Now more than ever, we need the strength of diverse perspectives to solve our urgent challenges.

We need these skills and diverse change-makers to recover from the COVID-19 pandemic, respond to international instability and confront the already devastating impacts of climate change.

We are on the precipice of an immense challenge and opportunity. Australia's future workforce needs to evolve, transform and tackle these complex problems to create a better tomorrow.



A technology powered,  
human driven future



## Event at a glance

ACTIVATE 2022 will span three curated days and feature our ‘human-centered’ activation space for exhibitors, hands on STEM careers engagements and networking.

### DAY 1

**Tuesday 25 October**

## Unite

Sydney Masonic Centre  
ATSE Fellows – by invitation only

The day will bring together members of ATSE’s 900+ Fellowship for its annual Assembly to reflect on progress, connect on national issues, and set the Academy’s future direction followed by a networking reception.



Sydney Masonic Centre  
66 Goulburn Street

### DAY 2

**Wednesday 26 October**

## Celebrate

Sydney Masonic Centre  
All event ticketholders  
Note – A separate ticket is required for the President’s Breakfast

The day will launch the ATSE Education Futures Report, celebrate new Fellows nominated to the Academy, feature interactive panel conversations with Australia’s STEM leaders and conclude with the ATSE Awards 2022 dinner.

- > LAUNCH: *Education Futures Report* High-level ATSE President’s Breakfast  
\*Breakfast attendance limited to 150 ticketed guests
- > Exhibition and activation space
- > Welcome and keynote
- > ATSE New Fellows 2022 announcement and welcome
- > Interactive Panel Sessions: Shaping a technology powered, human driven future
  - Climate change mitigation and adaptation
  - Enhancing research collaboration, translation and commercialisation
  - Exciting and educating young people in STEM

### DINNER

## ATSE Awards 2022

Doltone House  
Jones Bay Wharf  
Level 3 / 26-32 Pirrama Road  
Pyrmont NSW 2009

### DAY 3

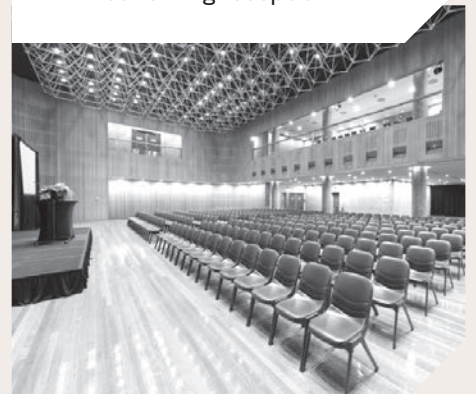
**Thursday 27 October**

## Activate

Sydney Masonic Centre  
All event ticketholders

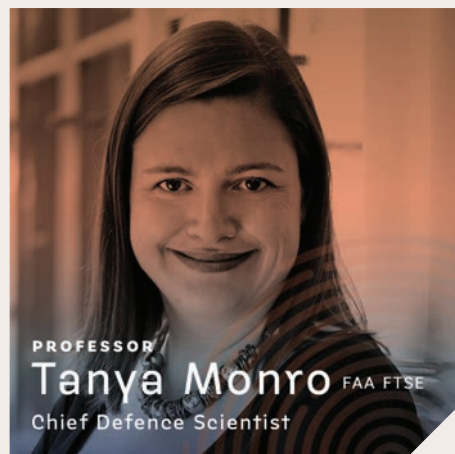
The day will feature interactive keynote conversations between national and global figures in STEM and feature concurrent sessions designed to create a plan across government, industry and academia for a technology powered, human driven future.

- > International and Australian keynote conversations
- > Concurrent sessions:
  - A Technology Enabled Future
  - A Resilient Future
  - A Sustainable Future
  - A Decarbonised Future
  - An Economically Diversified Future
  - An Internationally Engaged Future
- > Networking reception



Banquet Hall  
Sydney Masonic Centre

Confirmed speakers (as of early May 2022)



# ATSE AWARDS 2022

Celebrating innovation and excellence in STEM

Each year the Australian Academy of Technological Sciences and Engineering (ATSE) recognises outstanding senior and emerging innovators with national awards.

The ATSE Awards are a flagship moment for ATSE and the Australian STEM community for celebrating our applied scientists, technologists, engineers and entrepreneurs from a diverse fields.

The 2021 Awards celebrated world-class research putting cancer cells to sleep, preventing catastrophic bushfires and improving the flavour of plant-based food options. The work of past winners from a range of fields, including fintech, biotech, engineering and agriculture has improved countless lives and built major new Australian businesses.



During the pandemic, ATSE held simultaneous cocktail parties around Australia with drinks, canapes, networking and celebration. Virtual celebrations were facilitated by Nominee for NSW Australian of the year and recycling science superstar and the Australian Queen of Waste Professor Veena Sahajwalla FAA FTSE.

DINNER

## ATSE Awards 2022

Doltone House  
Jones Bay Wharf  
Level 3 / 26-32 Pirrama Road  
Pyrmont NSW 2009

**Wednesday 26 October**

The ATSE Awards 2022 will continue a legacy of bringing together up to 600 of Australia's brightest minds across STEM who are collaborating for a better Australia and world.



**Bernie Hobbs**, award winning science writer and presenter and judge from ABC TV's *The New Inventors* will MC the three course dinner.

The evening will feature a keynote presentation from an inspiring STEM individual and celebrate the 2022 ATSE Awards winners across the following categories:

- Clunies Ross Award for Innovation**
- Clunies Ross Award for Knowledge Commercialisation**
- Clunies Ross Award for Entrepreneur of the Year**
- Batterham Medal for Engineering Excellence**
- ICM Agrifood Award**
- Ezio Rizzardo Polymer Scholarship**
- David & Valerie Solomon Award**

[atse.org.au/activate2022](https://atse.org.au/activate2022)

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2022

# Join

Event registration now open

To find out more, partner or to sponsor ACTIVATE,  
contact [activate@atse.org.au](mailto:activate@atse.org.au)

**ATSE**

Regards,  
Kylie Walker  
Chief Executive Officer  
Australian Academy of Technological  
Sciences & Engineering

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& Engineering

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