



THE UNIVERSITY OF  
**NEWCASTLE**  
AUSTRALIA



science and engineering  
**challenge**

# Science and Engineering Challenge

Create our future.  
Make a difference.



United Nations Day Honour  
2022 Award Recipient

Partner with The University of Newcastle and be part of our [award-winning program](#) as we deliver our inter-school STEM based competition Australia wide inspiring Primary and Secondary students.

The [Science and Engineering Challenge](#) (SEC) presented by The University of Newcastle is a nationwide outreach program inspiring school students to consider a future in STEM. SEC delivers a unique, accessible program in every Australian State and Territory, introducing over 30,000 students annually to practical, hands-on applications of STEM through *design-and-build* activities.

At [SEC event days](#), students work in teams to solve real-world challenges, from building an earthquake resistant tower, to optimising networks for high-speed rail, and sending encrypted messages with light. SEC event days foster teamwork, build problem solving and collaboration skills, and provide insights into future STEM careers to support the workforce needs of the future.

Our program partners with 28 Universities Australia wide whilst fostering partnerships with Fiji National University and Massey University in New Zealand. Through our cooperative venture, we also engage with regional and remote local communities, local businesses, industry and government bodies. Alight your business with Australia's leading not-for-profit, national STEM competition for schools.

Across each year we engage with:



30,000+ students



2,000+ teachers



3,000+ volunteers



28 Universities

## Is The Challenge effective?

A survey of past participants revealed that:

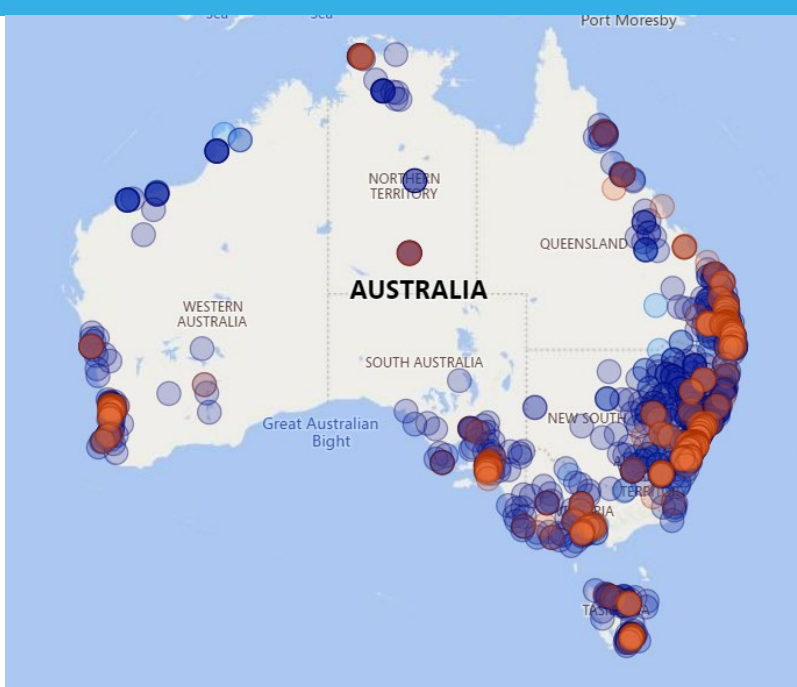
- 99% of teachers would bring their school again next year.
- 97% of students found The Challenge rewarding.
- 89% of students found The Challenge informative about potential courses and careers.
- 40% of students studying Mathematics in year 11 were influenced by The Challenge.
- 30% of students studying Chemistry in year 11 were influenced by The Challenge.
- 47% of students studying Physics in year 11 were influenced by The Challenge.

## Event statistics

- In a standard year we engage with over 30,000 students
- On average around 50% of our participants identify as female
- We engage with close to 60% regional, rural and remote students
- We are very proud to nationally engage with 5-6% ATSI students

## What events do we run?

- Challenge Days (Year 9/10)
- Discovery Days (Year 5/6)
- Teacher Professional Development
- Community based events
- Staff development days



For more information on sponsorship packages, please contact: **Michael Cassey**, Events Manager, Science and Engineering Challenge, The University of Newcastle on **+61 2 4921 7319** [Michael.Cassey@newcastle.edu.au](mailto:Michael.Cassey@newcastle.edu.au)