



Innovate  
UK

# Quantum Technology in Australia: Market Insights



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# Quantum technology in Australia: Stakeholders met

**National**  
- CSIRO

## Industry

- Trade & Investment Queensland
- Diraq
- Q\_CTRL
- Silanna

## Academia

- The University of Queensland
- Griffith University
- Queensland University of Technology
- The University of Southern Queensland

## Industry

- QuantX Labs

## Academia

- The University of Adelaide

## Industry

- Trade & Investment Victoria
- Breakthrough Victoria
- Infleqtion
- Invest Victoria

## Academia

- The University of Melbourne
- RMIT University

## Industry

- Sydney Quantum Academy
- Silicon Quantum Computing (SQC)

## Academia

- Macquarie Centre for Quantum Engineering (MQCQE)
- The University of Technology Sydney
- Centre for Quantum Software and Information (QSI)
- Centre of Excellence for Quantum Computation and Communication Technology (CQC2T)



# Quantum technology in Australia: Global & domestic market

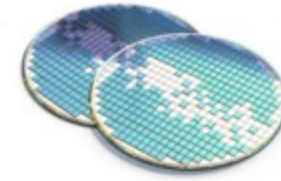
- Vibrant startup scene with world class institutions
- Relatively small, but growing

## Focus areas:

- Defence & PNT
- Environmental monitoring & resource exploration
- Life sciences
- Quantum computing & communication

## Wider use cases

- Transport
- Life mineral exploration
- Finance and global banking security



**AU\$6 billion**

Estimated Australian market  
for quantum technologies by  
2045<sup>a</sup>



**US\$10 billion**

Global market for quantum  
technologies by 2030<sup>b</sup>



**19,400**

Australian jobs estimated to  
be created in the quantum  
technologies sector by 2045<sup>a</sup>



**15%**

UK ambition for share of global  
quantum technologies market  
by 2033, current share is 9%<sup>c</sup>



**5<sup>th</sup>**

The UK is Australia's 5th most  
frequent partner for bilateral  
agreements<sup>d</sup>



**£2.5 billion**

UK government funding for  
quantum technologies  
between 2024 - 2034<sup>e</sup>

# Quantum technology in Australia: Innovation support

## Roadmaps

- Australian National Quantum Strategy (DISR)
- Quantum Technology Roadmap (CSIRO)

## Skills

- Sydney Quantum Academy
- Centre of Excellence for Quantum Computation and Communication Technology (CQC2T)
- National Industry PhD Program

## Funding

- Australian Research Council (ARC)
- Australia's Economic Accelerator - \$1.6 billion grant programme
- Trailblazer Universities Program - \$362.5 2021 - 2026

## Facilities

- Australian National Fabrication Facility (ANFF)



# Quantum technology in Australia:

## UK – Australia collaboration

- AUKUS Quantum Arrangement (AQuA)
- Quantum computing, artificial intelligence, and cybersecurity

### Wider collaboration

- 565 agreements between Australian and UK institutions
- UK is Australia's 5<sup>th</sup> most frequent partner
- UK is Australia's third academic collaborator by co-authored research outputs

