



# Resources Technology and Critical Minerals Trailblazer

Transforming how industry, universities and research work together


Supporting optimization of resource operations by developing new technologies

Equipping innovators with the skills and knowledge to transform the sector

## Project

# High-Throughput Neutron Tomography Core Scanner for Critical Mineral Resources



 Curtin University

IN COLLABORATION WITH

# High-Throughput Neutron Tomography Core Scanner for Critical Mineral Resources

## Project Description

### Problem

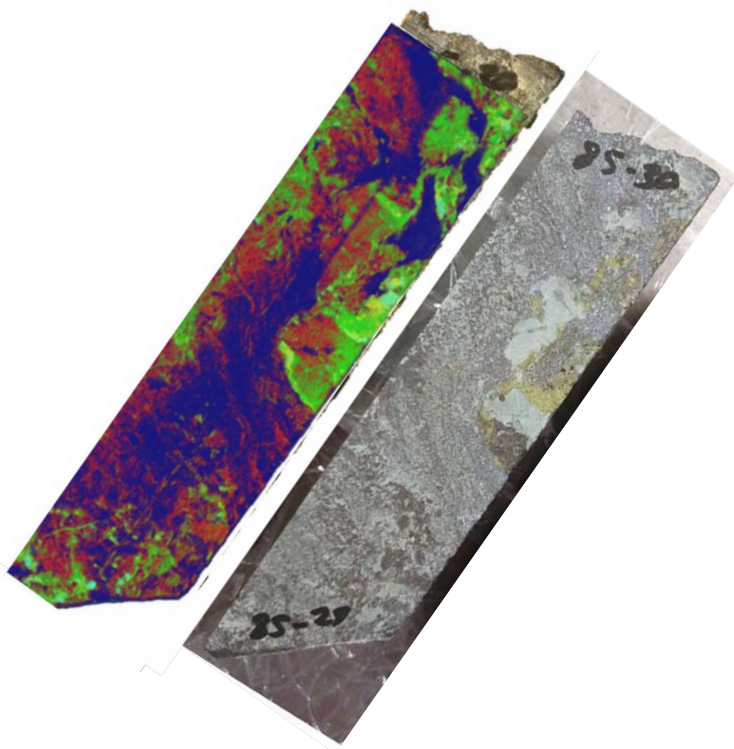
Break-through technology for 3D characterisation of mineralogy and geochemistry requires proof of concept for commercial application.

### Aims

Develop commercially viable procedures and protocols for routine 3D core scanning using neutron tomography.

Build a mineralogy database of neutron interaction.

Test and demonstrate the technology on a variety of deposit types.



## Partnerships

### Collaborators

James Cook University –  
Geoscience, Physical Sciences,  
Engineering

Industry – Terra Search, Sunshine  
Metals, Ravenswood Gold

Government – ANSTO

### Project Lead

Assoc. Prof. Ioan Sanislav, JCU

### Contributions

Industry ~ \$1.7m

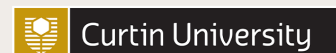
Trailblazer ~ \$0.8m

Government ~ \$1.5m

Total Project Value ~ \$4m

April 2026

For further information on JCU Trailblazer projects please  
send enquiries to: [EGRU@jcu.edu.au](mailto:EGRU@jcu.edu.au)



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