



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

Optimising Vanadium Extraction and Processing from the Toolebuc Formation through Advanced Characterisation



 Curtin University

IN COLLABORATION WITH

Optimising Vanadium Extraction and Processing from the Toolebuc Formation through Advanced Characterisation

Project Description

Problem

Challenges in vanadium processing related to complex ore mineralogy and small particle size.

Aims

Characterise vanadium mineralogical associations in the Toolebuc Formation.

Characterise tailings for processing and environmental management.

Develop techniques for rapid mineralogical characterisation of vanadium ores.



Partnerships

Collaborators

James Cook University –
Geoscience, Engineering
Industry – Critical Minerals Group,
QEM, Richmond Vanadium
Technology, Velox Products
Government – Critical Minerals
Queensland

Project Lead

Dr Helen McCoy-West, JCU

Contributions

Industry ~ \$14.3m

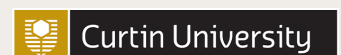
Trailblazer ~ \$0.6m

CMQ ~ \$0.6m

Total Project Value ~ \$15.5m

June 2026

For further information on JCU Trailblazer projects please
send enquiries to: EGRU@jcu.edu.au



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