WORKSHOP: Generative AI in Geoscience Workshop

Date: Thursday 20 November 2025
Venue: The Auditorium, 33 Charlotte St, Brisbane *(same venue as conference)*
Time: 9:15am to 12:30pm

Agenda	
9.15 am	**Welcome and Introduction**
9:20 am	**Session 1: Introduction to Generative AI in Geoscience** • How LLMs work and what is available • Domain-specific models versus general models • What you can achieve today

9:50 am	**Session 2: Applications of Generative AI in Geoscience**
	• The technology evolution: how did we get here?
	• Technical landscape
	• Practical implementation showcasing GSQ use cases:
	    o Vocabulary management
	    o Metadata repair
	    o Digital Librarian tool

10:30 am	**Morning Tea**
10:45 am	**Session 3: Hands-On Prompting Workshop** • How to write effective prompts • Prompting workshop • Explore the potential for a GSQ LLM Prompt Library
11:20 am	**Session 4: Future Directions and Data Quality** • GSQ's roadmap for Generative AI • The role of data quality and industry reporting in enabling AI use cases • Connecting Generative AI to Geoscience Data
12:00 pm	**Session 5: Interactive Industry Session** • Insights from industry feedback and survey results • Collaborative discussion on tool requirements and use cases • Establishing a reference group and next steps
12:20 pm	**Questions and Closing**

This workshop is ideal for geoscientists, mining engineers, data scientists, data managers, and decision-makers working with geoscience data in Queensland's mining and resources sector.

For more information, contact Rob Chatterjee (rob.chatterjee@nrmmrrd.qld.gov.au)