



# **UK – Canada Sustainable Critical Minerals Research Partnerships**

## **Background of Alliance Missions Call for Proposals on Critical Minerals Research**

June 2024

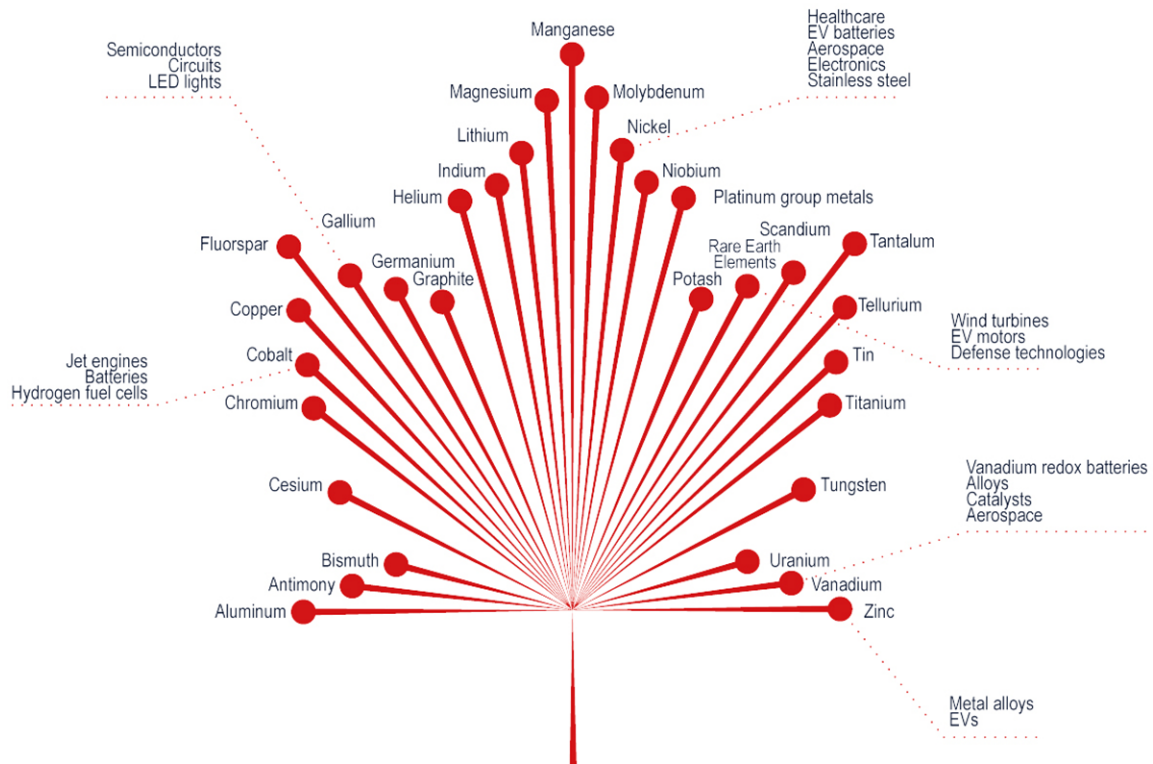
# Objectives

Alliance Missions grants are intended to provide support for research activities that will:

- advance Canadian knowledge, models, processes, tools and technologies to optimize efficiency, minimize environmental impacts, and/or support data-driven decisions along domestic **critical mineral value chains, from exploration to recycling** (e.g., geological and economic modelling of critical mineral deposits, flowsheets, life-cycle analyses, etc.); and/or
- develop efficient options to advance a domestic **circular economy** with less reliance on primary mineral resources through mine reclamation and/or critical mineral recycling or reprocessing (e.g., mining and industrial waste, end-of-life products, etc.); and/or
- support the **development of best practices** in technology, innovation and collaborative ventures (e.g., best practices to advance vertical integration across the sector, etc.).



# Targeted Critical Minerals



- Lithium
- Graphite
- Nickel
- Cobalt
- Copper
- Rare Earth Elements
- Vanadium
- Gallium
- Titanium
- Scandium\*
- Magnesium
- Tellurium
- Zinc
- Niobium
- Germanium

\*Scandium is not prioritized for the UK call

## Alliance Missions : Critical minerals research

### Who?

University researchers  
collaborating with private  
sector, public-sector  
and/or not-for profit  
organizations

### How long?

3 years

### How much?

\$100K to \$500K  
per year

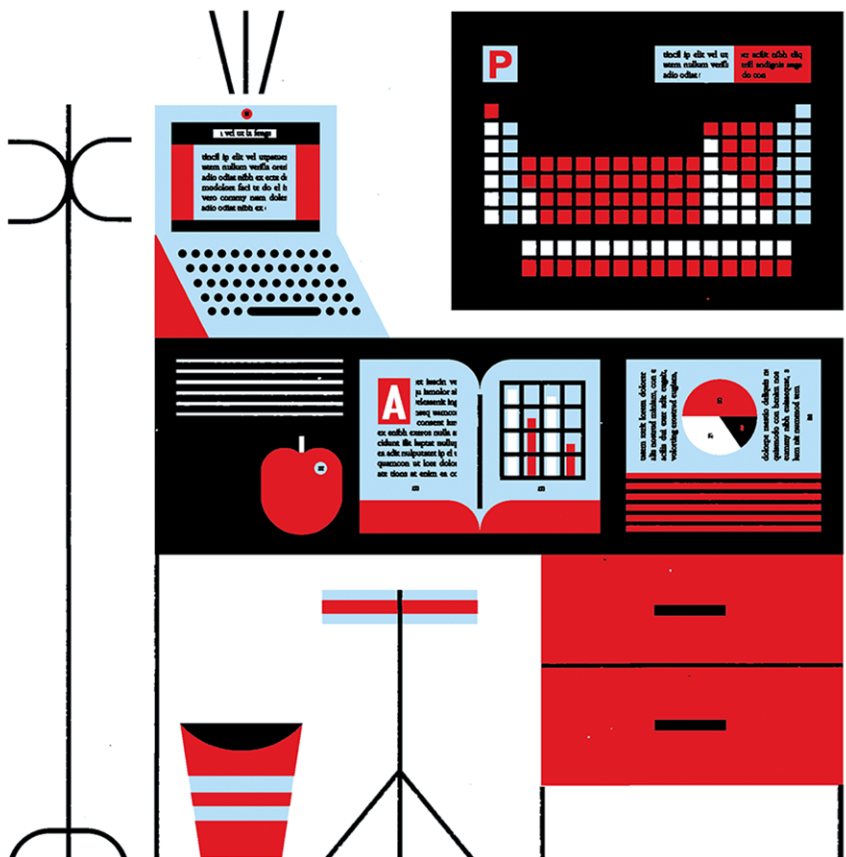
# Competition Outcomes

- 65 awards
  - \$58.9M over 3 years
- Start date: March 31, 2024
- Common research areas:
  - Mineral resources (prospecting, exploration, mining, extraction, processing)
  - Manufacturing processes and products
  - Waste, waste management and recycling
  - Energy storage and conversion
  - Earth sciences

Priority Critical Minerals		Award Count
Supply Chains	Lithium	22
	Graphite	13
	Cobalt	15
	Nickel	21
	Copper	17
	REE	15
Future Prospects	Vanadium	1
	Gallium	4
	Titanium	3
	Scandium	4
	Magnesium	1
	Tellurium	1
	Zinc	9
	Niobium	1
	Germanium	3

## Links

- **Application Instructions** - [https://www.nserc-crsng.gc.ca/OnlineServices-ServicesEnLigne/instructions/101/alliance\\_eng.asp](https://www.nserc-crsng.gc.ca/OnlineServices-ServicesEnLigne/instructions/101/alliance_eng.asp)
- **Evaluation Criteria and Merit Indicators**  
[https://www.nserc-crsng.gc.ca/\\_doc/alliance/Merit\\_Indicators-Alliance\\_Grants\\_e.pdf](https://www.nserc-crsng.gc.ca/_doc/alliance/Merit_Indicators-Alliance_Grants_e.pdf)
- **Program Description**  
[NSERC – Alliance Missions grants: Critical minerals research \(nserc-crsng.gc.ca\)](https://www.nserc-crsng.gc.ca/Alliance_Missions_grants_Critical_minerals_research)



# Questions?

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