

Canadian Centre for Isotopic Microanalysis Project Proposal

A proposal is developed through a consultative process with the facility staff. Please send a brief description of your project and the analyses required, following the headings below in Word, to rstern@ualberta.ca.

1. Project Title

2. Date

3. Chief Investigator and Partners

List affiliations, addresses, emails, phone numbers, etc.

Please note that many projects will include CCIM staff as partner investigators (see below), but do not list those here.

4. Description of the Project:

Introduction: give a general description of the research problem.

SIMS analysis: describe why you require SIMS data and what you hope to demonstrate or test with it.

Samples: describe the type(s) of samples are be analyzed, e.g., mineral separates, thin-sections, etc. Include images of samples if available. What spatial resolution is required? Include compositional data on the samples if known.

Analyses, details: what type of data do you need (i.e., the mineral and isotope system)? Estimate how much data do you will need. To what level of precision and accuracy?

Existing data: if there are relevant data from other studies or previous work, then summarize the findings.

Publications: list pertinent publications

5. CCIM Analytical resources required:

Consult with us to determine the CCIM resources estimated for the project, which may include:

- Region-of-interest (ROI) extraction, number of ROIs
- Specimen sectioning (e.g., otoliths), number of specimens
- Mineral grain mounting (e.g., zircon), number of fractions/samples

- Ion probe mount assembly and characterization, estimated number of mounts
- Scanning electron microscopy (BSE, CL, SE) will be routinely done by CCIM on prepared mounts; indicate any special SEM requirements
- EPMA is available where required for SIMS data calibration, specify any requirements
- Ion probe time, estimated number of analytical days

Visitor assistance is not required, but project personnel are welcome to assist the analytical work and learn about the techniques, so indicate if there is interest.

6. Budget:

Available funds, and the source of the funds.

7. Schedule:

Desired dates for completion of the analytical work.

8. Outputs and Intellectual property:

- CCIM follows the recommendations for authorship published by the US National Academy of Sciences and Nature journal (<https://www.nature.com/nature-portfolio/editorial-policies/authorship>).
- The primary investigator must ensure that all results, including conferences and journals, will include appropriately-weighted co-authorship to CCIM academic personnel directly involved in the research (typically the facility manager), with contributions from technical staff stated in the Acknowledgments, as instructed by the facility manager.
- The CCIM Project Number should be included in the Acknowledgments
- State any requirements for confidentiality.