



MSc Project: Integrated Mapping of Windsor Group carbonate and evaporite units for mineral resources

Applications are invited for a newly funded **MSc project** on evaporite tectonics in Nova Scotia. This is a fully funded, multidisciplinary MSc project involving a combination of field geologic mapping, remote sensing (LiDAR) and subsurface (seismic, borehole) interpretation. This study will focus on the Visean Windsor Group in Nova Scotia, part of the late Paleozoic Maritimes Basin that covers much of onshore and offshore Atlantic Canada. This project aims to integrate diverse datasets to discover how evaporites have flowed in the subsurface during their ~330 Myr history in response to a varying tectonic environment, and how they continue to influence the landscape. The project aims to produce new geological maps and cross sections that will aid in future mineral exploration in the province.

This project will suit students with strong interests in geologic mapping, structural geology, stratigraphy, salt tectonics, and mineral deposits. The project will provide experience in the interpretation of remote sensing, seismic, borehole, and biostratigraphic data.

The project will be based in the Earth and Environmental Science Department at Acadia University in Wolfville, Nova Scotia (<https://ees.acadiau.ca/home.html>), supervised by Drs Mo Snyder and John Waldron. This project is funded through the Nova Scotia Department of Natural Resources and Renewables Mineral Resourced Development Fund. Applicants should have completed, or expect to complete, a BSc in Geology or Earth Science prior to admission. We hope a successful applicant can start work as soon as possible; **admission for September 2022** would be ideal, but a January 2023 admission is also possible.

Acadia University, established in 1838, is located in Mi'kma'ki, the ancestral territory of the Mi'kmaq People. The Acadia University campus is within walking distance to the Bay of Fundy, a place with the highest tidal range on Earth. Downtown Wolfville, a short walk from campus, is a common tourist destination with a plethora of shops, restaurants, and parks.

Please email morgan.snyder@acadiau.ca and waldronjwf@gmail.com to request more information and/or express interest. If you are interested in applying, please include in your email a (i) current CV, (ii) unofficial academic transcript, and (iii) names/contact information of two referees.