

Frank Robert Brunton

Job Title: Paleozoic Geoscientist (GS3 - Groundwater Initiative; Industrial Minerals) – PGeo,
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Job Description: Main research interests involve field-based mapping of Ontario's Paleozoic bedrock & groundwater resources. This approach involves: 1) basin analysis studies – sequence stratigraphy / sedimentology / paleobiology / bio-chemostratigraphy, and paleobiogeographic reconstructions; 2) creation of 3D models; 3) karst mapping and assessment – leading to collaboration with other provincial ministries to create mitigation and guidance documents for land-use planners and regulators; 4) rock and water chemistry; 5) development of innovative research/models for Paleozoic history of Ontario basins – including theories/hypotheses in hydrogeological and geophysical techniques/applications; 6) coordination/review of project plans and leading project teams; and 7) collaboration between various ministry staff and academic researchers, including field-based training of geoscience students, various municipal staff, and environmental consultants. Such studies require the preparation of inventory reports, databases, maps and graphics; and updating of Paleozoic geology / stratigraphy and industrial minerals, and mapping of bedrock potable groundwater and deeper basin flow systems.



Karst mapping in Ontario –