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GEOLOGICAL SCIENCES
& GEOLOGICAL ENGINEERING

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The new Clastic Sedimentology Group at Queen's University, headed by Dr. Elisabeth Steel, is actively recruiting graduate students to begin in Fall 2019. Our research spans a broad range of topics including sediment gravity flow successions, evolution of alluvial fans, and predictions of deltaic stratigraphy from surface dynamics. We investigate sedimentary systems through a combination of outcrop studies, coring of modern environments, and experimental sedimentology. More information about Dr. Steel's research can be found here: <https://elisabethsteel.weebly.com/>

Dr. Steel is taking up her position in the Department of [Geological Sciences and Geological Engineering](#) at Queen's University in January, 2019. Plans are underway to build an experimental basin designed for physical modelling of deltas and turbidity currents in the [Coastal Engineering Lab](#). This experimental facility complements existing flumes in the Coastal Engineering Lab, which include a large wave basin, several 45m long flumes, a landslide flume, and several river simulator flumes. The Clastic Sedimentology Group will also have a sediment lab equipped with a laser particle size analyser, drying oven, fume hood, and vibracoring equipment.

Specific projects are available for PhD and Masters students interested in: conducting flume experiments on dynamics of turbidity currents; comparisons of subaerial and submarine debris flows; field-based studies of modern and ancient alluvial fan successions; and subsurface interpretation of deep-water sedimentary successions. Funding is not tied to a particular project and those interested in studying sedimentary systems through the combined lens of physical experiments and field data are encouraged to apply. Opportunities are also available for students to propose and develop their own projects.

Dr. Steel is committed to building a diverse and inclusive research group, and students from historically underrepresented groups in STEM and non-traditional backgrounds are highly encouraged to apply. All students in our group will be supported to participate in outreach activities and endeavours to increase diversity and visibility of underrepresented groups in STEM fields.

Anyone interested in learning more about opportunities to join our group are welcome to contact Dr. Elisabeth Steel at Lsteel@umn.edu. She will be attending both GSA and AGU and will be available to meet with interested students there. More information about applying can be found here: <http://www.queensu.ca/geol/prospective-students/graduate/apply>.