GLOBAL WATER FUTURES
SOLUTIONS TO WATER THREATS
IN AN ERA OF GLOBAL CHANGE

"Old Meets New: Subsurface Hydrogeological Connectivity and Groundwater Protection" is a project funded by the Global Water Futures Program at the University of Saskatchewan that focuses on improving our understanding of hydrogeological systems. The project is looking to fill several student positions.

PhD and MSc opportunities – Hydrogeological Connectivity

The initial phase of this project aims to improve our understanding connections between deep and shallow aquifer systems in the Western Canada Sedimentary Basin, an area with an extensive history of oil and gas development. While there is extensive data available for this study area, there are key gaps including the role of leaky wells, aquitard continuity and the distribution of freshwater in deeper aquifers. These issues will be examined using a combination of data mining, geochemical sampling and numerical modeling to assess the potential for solute and contaminant transport across regional aquitards.

We are seeking two M.Sc. students, 1 Ph.D. student to contribute to this project. Applicants will work closely with Dr. Grant Ferguson and Dr. Matt Lindsay, but are expected to interact closely with the broader project team, and our partners in government. Prior experience in hydrogeology, geochemistry, GIS, reservoir engineering and numerical modeling will be considered an asset. Applicants with degrees in geology, geological engineering or geochemistry are preferred. Interested applicants should contact Dr. Grant Ferguson (grant.ferguson@usask.ca).