

College of Sciences | Department of Earth and Planetary Sciences

03/10/2022

Position Title: PhD Student

Primary Location: University of Texas at San Antonio

Subject Area: Groundwater quality, water chemistry, trace elements geochemistry,

Application Deadline: April 30, 2022

Possible Position Start Date: MAY 2022 OR AUGUST 2022

Applications are invited for a 3 year-paid fulltime PhD student at the Department of Earth and Planetary Sciences at University of Texas at San Antonio (under College of Engineering's Environmental Science and Engineering PhD Program: Website: <https://graduateschool.utsa.edu/programs/environmental-science-and-engineering-ph.d/index.html>). The successful candidate will investigate chemical quality of Edwards Aquifer groundwater by employing field sampling, in-situ measurements, field experiments, laboratory analyses, flow and geochemical modeling approaches. Candidate will be expected to work with state-of-art analyses techniques including but not limited to ion, liquid and gas chromatography, trace elements measurements by ICP-MS, organic matter characterization, as well as field instruments including real-time probes. The candidate will work in an interdisciplinary setting at UTSA, in Chemical Hydrology and Mass Spectrometry Lab, and Institute of Water Research, Sustainability and Policy (IWRSP), and will be supervised by Dr. Saugata Datta.

It is critically important that the candidate has a strong leadership and active communication qualities to conduct the research by designing and critically analyzing the results and advocating for achieving the project goals. The candidate should also have excellent writing skills of technical reports and journal papers. An MS in geological sciences/earth sciences, or relevant masters in engineering fields on relevant topic(s) and/or additional experiences is necessary. This work is a part of recently funded proposal by Edwards Aquifer Authority "*Geochemical and hydrological investigations of land use impacts on the Edwards Aquifer*".

Application Materials:

If interested and to follow up on the details of this project and future roles of the PhD student, please send your primary interest letter or email, with one page research philosophy, and detailed curriculum vitae to Prof. Saugata Datta, at UTSA at saugata.datta@utsa.edu. After relevant discussion, you are welcome to apply through the above link.