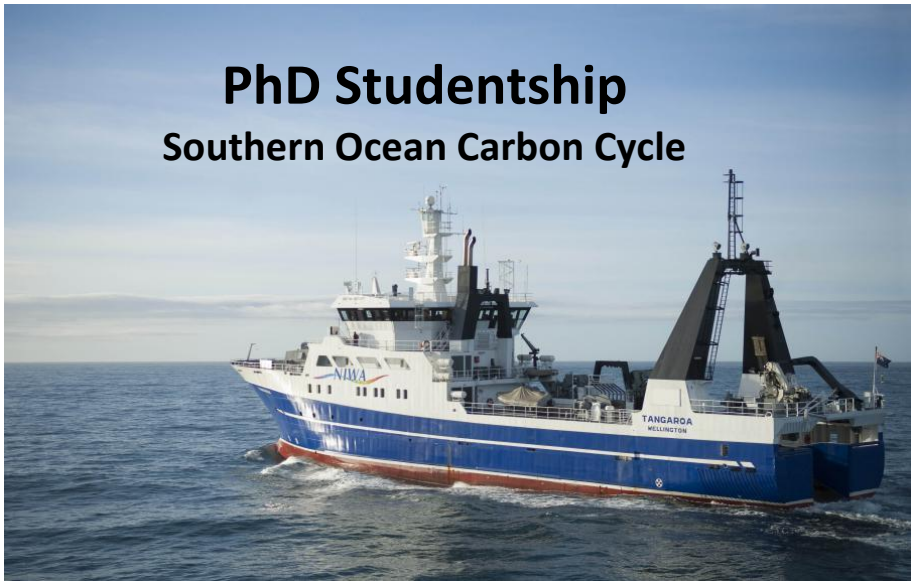

We seek a highly motivated person for a three-year PhD studentship on oceanic and atmospheric model simulations to interpret observations of CO_2, $^{14}CO_2$ and other gases and isotopes collected on ship voyages through the Southern Ocean and at observing sites in Aotearoa New Zealand and Antarctica. This project will also use publicly available observations from Argo floats, satellites, and other platforms to support analysis and interpretation of the data.

This PhD project is part of the Antarctic Science platform, a major New Zealand government funded research programme that supports a range of physical and biological research to understand Antarctica and the Southern Ocean. The successful applicant will work with a vibrant, multi-disciplinary research team including experts in measurements and modelling of earth's ocean at atmosphere. They will be co-supervised by will be co-supervised by Sara Mikaloff Fletcher (NIWA), Elizabeth Keller (who has a joint appointment at Victoria University of Wellington and GNS Science), and Jocelyn Turnbull (GNS Science).

The student will be expected to enroll at Victoria University of Wellington, but will be physically based at the National Institute for Water and Atmospheric Research (NIWA) in Wellington New Zealand.

Prospective candidates must have a background in chemistry, physics, Earth science, or related discipline, be proficient in one or more scientific programming language, and be eligible for acceptance to the Victoria University of Wellington's PhD programme, requiring a Masters or equivalent degree. A scholarship will be provided.

The start date will be in early or mid 2022, and **we will accept applications until 30 September 2021**. Applications should include a cover letter, recent CV and evidence of eligibility for the Victoria University of Wellington's PhD programme.

Please direct questions to Dr. Sara Mikaloff Fletcher (Sara.Mikaloff-Fletcher@niwa.co.nz). You can apply for this opportunity here:

https://careers.sciencenewzealand.org/jobdetails/ajid/Pr6j9/PhD-Student-Southern-Ocean-Carbon-Cycle,44030.htm