



We seek a highly motivated person for a three-year PhD studentship on measurements and modelling of atmospheric greenhouse gases at the National Institute of Water and Atmospheric Research (NIWA) in New Zealand. The student project will include assisting with one or more newly established in situ greenhouse gas observing stations, analysing greenhouse gas data from established stations, and interpreting the measurements using model simulations.

This PhD project is part of the recently-funded CarbonWatchNZ research programme, a five year \$(NZ) 11.4M programme to establish a national-scale world-leading greenhouse gas measurement and modelling system. The student will be part of a vibrant, multi-disciplinary research team working with atmospheric measurements, atmospheric modelling, terrestrial modelling, and flux tower measurements. CarbonWatchNZ supports New Zealand's goal to be carbon neutral by 2050 by providing information to government, land managers, Māori partners, and others engaged in emission reductions. A student interested in working with policy makers or scientific communications would find opportunities with this project.

The student will be expected to enrol as a PhD student at Victoria University of Wellington. They will be co-supervised by Sara Mikaloff Fletcher (NIWA) and James Renwick (Victoria University of Wellington) and be physically based at NIWA at Greta Point in Wellington, New Zealand.

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

The start date will be in early to mid 2020 and we will accept applications until 30 November 2019. Applications should include a cover letter, recent CV and evidence of eligibility for the Victoria University of Wellington PhD programme. Please direct questions and applications to Dr. Sara Mikaloff Fletcher (Sara.Mikaloff-Fletcher@niwa.co.nz).

CarbonWatch (NZ)

GUIDING CARBON MITIGATION STRATEGIES

