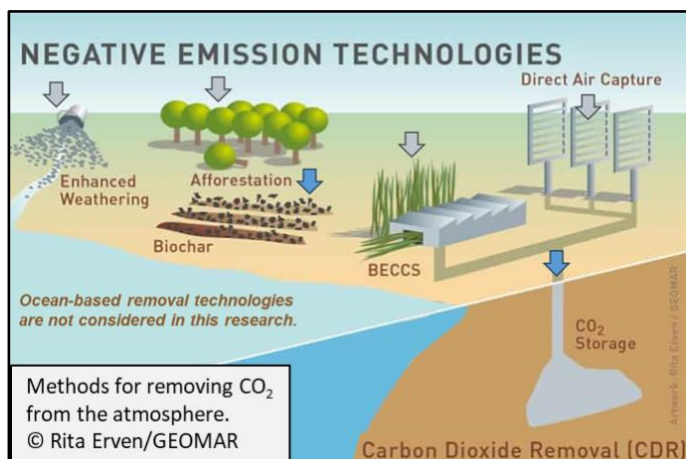


# PhD Degree position in Geology associated with Novel Carbon Dioxide Removal in New Zealand

We have an opening for a motivated student to undertake a PhD as part of a large research program aimed at assessing the feasibility of novel carbon dioxide removal in Aotearoa New Zealand. Our goal is to derisk technological pathways for atmospheric CO<sub>2</sub> drawdown and durable storage. This



interdisciplinary work spans fundamental science, techno-economics, systems engineering and environmental policy analysis. The project team will work with iwi, companies and local government to develop CDR case studies appropriate to NZ's unique situation.

The advertised PhD will focus on prospecting of potential aquifer systems for dissolved-phase carbon dioxide removal using a risk-minimisation approach

The ideal candidate would have a combination of the following:

1. Research experience involving basin analysis and reservoir characterisation.
2. Experience with ArcGIS and Petrel E&P (preferably gained through industry experience).
3. Understanding of siliciclastic sedimentology and stratigraphy, fluid flow in the subsurface, and/or faults and fractures.
4. Demonstrated English language skills (if English is not your first language, TOEFL or IELTS scores should be submitted with your application if available).

The successful candidate will be co-supervised by Dr. Andrew La Croix (University of Waikato) and Prof. Any Nicol (University of Canterbury). The PhD will be supported by the New Zealand Government via the 'Megaton Carbon Removal' MBIE research programme which runs until September 2029. We are offering a 3-year position based at the University of Waikato in Hamilton New Zealand (North Island). The position includes a PhD stipend of \$35,000/yr and full cover of tuition fees. The funding also includes up to \$6000 for conference attendance during the PhD, subject to satisfactory progress. The preferred start date is March 1, 2025.

Direct all initial enquiries to Dr Andrew La Croix (University of Waikato, [alacroix@waikato.ac.nz](mailto:alacroix@waikato.ac.nz)). A curriculum vitae, cover letter, and contact details of at least two referees should be emailed to [alacroix@waikato.ac.nz](mailto:alacroix@waikato.ac.nz) by December 1<sup>st</sup>, 2024.



**MINISTRY OF BUSINESS,  
INNOVATION & EMPLOYMENT**  
HĪKINA WHAKATUTUKI