

2022 Global Change Youth Research Project Description

Please use this template to create a description of each research project, eligibility requirements and expected deliverables. Project details can then be uploaded to each faculty, school, institute, and centre webpage prior to the launch of the program.

Project title:	Carbon storage in basalts
Project duration, hours of engagement & delivery mode	Duration of the project 4 weeks during Winter Vacation and 1 day a week during semester 2, 2022. Hours of engagement must be between 20-36hrs per week COVID-19 considerations: <i>The applicant will be required on-site for the majority of the project. Project may be switched to remote work if necessary.</i>
Description:	This research project will characterise and react basalt rocks with carbon dioxide to evaluate the potential for safe storage of CO ₂ by conversion to carbonate minerals. This will reduce carbon emissions to the atmosphere through carbon storage.
Expected outcomes and deliverables:	<i>Scholars may gain skills in experimental characterisation of waters and rocks and data collection, and they may have an opportunity to generate a publication from their research. Students may be asked to produce a report or oral presentation at the end of their project.</i>
Suitable for:	<i>This project is open to applications from students with a background in chemistry, earth sciences, or chemical engineering (or similar), and with laboratory experience.</i>
Primary Supervisor:	Dr Julie Pearce
Further info:	For further information, please contact j.pearce2@uq.edu.au .