

PROJECT DETAILS

Project Title:

Investigating Perceptions of Mathematics Among Students

Project Summary:

In Australia, like internationally, considerable importance has been attached to science, technology, engineering, and mathematics (STEM) education at all levels to support innovation and economic productivity (Australian Industry Group, 2013). Student achievement and participation in STEM subjects, however, have been declining (Education Council, 2018), particularly in mathematics. The reasons posed for these include low levels of student interest and motivation to study mathematics (Dean et al., 2023). Investigations into school students' perceptions of mathematics, mathematics teaching and learning, and mathematics-related careers are needed, and therefore investigating these perceptions is the goal of this project. Findings will inform mathematics educators in enacting a vision of mathematics education and provide evidence-based recommendations for teaching mathematics.

Preferred Applicant Skillset:

Candidates should have passion and enthusiasm for their research topic. They should be ready to learn how to plan out their research and how to conduct it, to develop suitable approaches to tackle their research questions, to conduct qualitative/quantitative experiments, and interpret the data. Having mathematics education or mathematics specialisation is advantageous but not essential; however, candidates should demonstrate familiarity with the Australian mathematics education context. Candidates who are familiar to both quantitative and qualitative methodologies, and to the use of relevant software (e.g., SPSS, NVivo), are desired. Both domestic and international candidates with these skills and interests are encouraged to apply.

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