Faculty of Engineering
Summer Research Program 2021-2022

Project Title: Embedding and Evaluating Teamwork Skills Development in Engineering – how hard can it be?
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Objective

The Institution of Engineers Australia and the industries that recruit engineering graduates expect engineering schools to make teamwork an essential component of the curriculum and to produce high calibre graduate engineers that are industry-ready. Developing teamwork skills is, however, a recognised challenge amongst engineering students. The main objective of this project is to develop an integrated teamwork skills development framework to address the challenge of teaching and assessing teamwork skills development.

Project Details

The project aims to answer the following research questions:

- How do we create goal setting and action setting processes that create individual, shared and collective responsibility? How do we measure the impact of these in outcomes?
- How do we create experiences that develop social responsibility? What is the impact of developing teamwork skills on this?

Project stages:

- Guided literature review on teamwork skills, accountability and goal setting research;
- Development of a framework that will integrate accountability, motivation and social loafing theories coupled with peer evaluations, debriefing and reflection activities in order to develop students’ effective team behaviour and team health;
- Development of a proposal for implementation and testing this framework

Project deliverables - a research report that will

- Summarise the project background and need in an international context;
- Describe the proposed framework, its implementation and testing.

Prerequisites

Only students interested in engineering education research are recommended to apply for this project.

Additional Information

Interested applicants may be required to attend an interview.