**UQ Winter 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.

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| **Project title:** | **Please insert the name of project**  **Understanding the neurophysiology of executive function** |
| **Hours of engagement & delivery mode** | For the Winter program, students will be engaged **for 4 weeks only**.  Hours of engagement must be between 20 – 36 hrs per week and must fall within the official program dates (30 June – 25 July 2025).  The project will be run on-site. |
| **Description:** | This project explores the causal neural basis of executive functions —multi-tasking, decision-making, and cognitive control — which are among the most vital psychological operations for adaptive behaviour in everyday life. We use a variety of research methodologies, including behavioural tasks, ultra high-field (7T) MRI, non-invasive brain stimulation, EEG, and drug manipulations to understand and enhance human performance. The Winter Scholar will have the opportunity to experience the work we do in this space, and contribute to ongoing projects. |
| **Expected learning outcomes and deliverables:** | The scholar will have the opportunity to observe and assist with data collection and analyses of cutting-edge cognitive neuroscience techniques. This work may contribute to publications, and the student will gain experience with working in a lab environment. |
| **Suitable for:** | This project is open to applications from students interested in and enthusiastic about cognitive neuroscience. |
| **Primary Supervisor:** | Dr Hannah Filmer |
| **Further info:** | For further information, please contact Dr Filmer (h.filmer@uq.edu.au). |