Using multimodal neuroimaging to analyse youth mental health and suicide prevention.

The Sunshine Coast Mind and Neuroscience - Thompson Institute at the University of the Sunshine Coast is seeking to recruit a PhD student to work on multimodal neuroimaging projects in the areas of youth mental health and suicide prevention.

This full-time postgraduate scholarship (AUD$27,082 per annum tax-free for three years) is available for a suitably qualified candidate from January 2018. The planned project will employ cutting-edge neuroimaging methods (EEG, MRI, DTI, MRS fMRI) combined with quantitative, data driven modelling and analyses for functional and structural connectivity characterization, biomarker profiling and explicating mechanisms that underpin psychiatric conditions.

Candidates should have an Honours or Master degree in Science, Cognitive Neuroscience, Computer science, Biomedical engineering or a related field and a strong interest in the key areas of cognitive neuroscience, coupled with strong computational skills. Coding proficiency in either R, Python or Matlab would also be beneficial. Candidates are expected to have excellent communication skills in English, both written and verbal. Experience with neuroimaging techniques (e.g., MRI/EEG) and related analyses are highly desirable as well as a demonstrated an ability to work with youth and adult cohorts.

The Thompson Institute (TI) is developing into a world-class facility for mental health and neurological research. Our onsite research facilities include a research dedicated 3T MRI scanner including MR compatible EEG, 2 multimodal EEG labs including eye tracking and autonomic nervous system measures, brain stimulation (TMS and tDCS) labs, and neurofeedback. The successful candidate will have the opportunity to utilize the cutting edge imaging facilities and expertise at TI to make a major contribution to the understanding, diagnosis and treatment of disorders of the brain and mind, being at the forefront of vital research for the Sunshine Coast in the areas of mental health issues relating to youth and adolescents.

For details on application submission process and deadline please visit

https://www.usc.edu.au/learn/what-will-i-pay/scholarships/research-scholarships/thompson-institute-phd-scholarship

For further information, please contact Kathryn.broadhouse@usc.edu.au