

We are seeking highly motivated and talented candidates to join our lab at the University of Technology Sydney as a PhD student for a recently funded Australian Research Council (ARC) Project. This position is perfect for individuals passionate about brain decoding, brain-computer interfaces, translational neuroscience, and AI-driven innovations. The research focuses on advancing cutting-edge brain decoding of mental imagery to develop Neuro-AI models capable of generating emotion-eliciting images.

## **What are we looking for?**

Required qualifications:

- an Australian First Class Bachelor (Honours) degree,
- a Research Masters degree, or
- equivalent overseas qualifications in cognitive science, computer science, mathematics, engineering or a related subject
- knowledge of one or more programming skills (C/C++/C#, Python) and tools like MATLAB/Unity
- ability to communicate complex information effectively in writing, with a track record of publication in peer-reviewed conferences/journals.
- fluency in English
- position is open for both domestic and international applicants.

Desired qualification:

- Understanding of machine learning methods and tools
- an interest in the translational neuroscience and brain-computer interface applications
- knowledge of working with a wide-variety of behavioural and physiological recording techniques including eye-tracking, cardiac monitoring, electrodermal response, EEG and fMRI.
- knowledge of designing and conducting cognitive neuroscience experiment

## **Funding Details:**

- Fully funded position including tuition fees and a competitive stipend of \$37,000 (AUD) per annum for 3.5 years.
- Support for conference and travel

## **How to Apply:**

To apply, please email the following:

1. A detailed CV.
2. A cover letter outlining your research interests and experience.
3. Contact details of [2-3] academic referees.

**Deadline:** Until position is filled

**Contact:** For inquiries, please contact at [avinash.singh@uts.edu.au](mailto:avinash.singh@uts.edu.au)