Post-doctoral position (Level A, 3 years) in Melbourne, Australia

Research topic: The influence of attentional selection on perceptual decision making

Principal Investigators: Professor Mark Bellgrove, Associate Professor Redmond O'Connell, Dr James Coxon

Institution: Monash Institute of Cognitive and Clinical Neurosciences (MICCN), School of Psychological Sciences, Monash University.

Funding partner: The funds supporting this research project are provided by the Australian Research Council (ARC)

Essential skills: Programming in Matlab/Python (or similar). Experience with electrophysiological recording and analysis, either electroencephalography (EEG) or transcranial magnetic stimulation (TMS).

Additional highly desirable skills: Demonstated ability to learn new expeimental techniques, previous research experience with concurrent TMS-EEG, sophisticated statistical analysis, a track record of obtaining competitive grant/fellowship funding.

The role:
You will be part of a research program investigating the cognitive neuroscience of attention and decision making. Your primary responsibility will be to drive forward research combining non-invasive brain stimulation and recording (TMS-EEG) to understand the causal influence of attentional selection on perceptual decision making. This will comprise experiment design, along with the acquisition and analysis of electrophysiological and behavioural data from healthy human participants. Opportunities for patient work (stroke patients presenting with neglect) may arise.

Responsibilities:

- To design experiments in conjunction with the principal investigators
- To recruit participants, set-up equipment, acquire behavioural and physiological data, and perform sophisticated data analysis and statistics.
- To prepare ethics applications and write-up results for publication in leading peer-reviewed neuroscience journals.
- Attend and present work at meetings with colleagues and collaborators
- With the support of the principal investigators, prepare for appropriate career advancement.

Selection criteria:

- Demonstated ability to produce high quality code (e.g. portfolio of work via GitHub or Jupyter notebook).
- Ability to run experimental sessions independently (preferably involving either TMS or EEG).
- Excellent organisational skills and time management.
- Good communication skills.
- PhD in a relevant discipline (e.g., psychology, neuroscience, biology, physiology, medicine etc.).
- Excellent academic track record.
- Ability to manage the day-to-day running of a research project including scheduling sessions and liaising with other researchers and staff.
- Ability to work as part of a team, working co-operatively with senior and junior colleagues and sharing laboratory and research resources.

When expressing interest in this position, please send a single PDF file to mark.bellgrove@monash.edu containing all of the following: (1) A personal statement describing research interests, experience, and goals (< 1 page); (2) Curriculum vitae; (3) Names and contact information of two references. Start date is negotiable but ideally would be no later than March 2018.