

FOUR POST-DOCTORAL POSITIONS IN SYSTEMS AND COMPUTATIONAL NEUROSCIENCE, Departments of Psychiatry, Bioengineering and Mathematics, University of Pittsburgh, Pittsburgh, PA, USA

The labs of Drs. Doiron, Salisbury and Teichert at the University of Pittsburgh have openings for four postdoctoral researchers to work on a newly-funded BRAIN initiative grant. The goal of the research is to understand the micro- and mesoscopic events that underlie the dynamic modulation of EEG and MEG amplitude to repeated auditory stimuli. We will study this phenomenon using identical paradigms in three model systems (human, monkey, and in silico) and at five levels of observation to understand how the effect is enhanced, attenuated, or otherwise altered while transitioning from synapse to cell, from cell to circuit, from circuit to brain region, and from brain region to macroscopic EEG/MEG measurements.

The post-doctoral researchers will work within a collaborative team that includes PIs Salisbury, Teichert, and Doiron, as well as Co-Investigators Kass, Sweet, Ghuman and Gonzales-Burgos. Two post-docs will focus non-human primate EEG, CSD, single cell and microinjection studies with Dr. Teichert. One post-doc will focus on human EEG/MEG studies with Dr. Salisbury. One post-doc will model large-scale neural networks with Dr. Doiron. All positions are ideal for candidates who are interested in understanding how micro- and mesoscopic neural signals recorded in animal models can inform our understanding and interpretation of macroscopic signals recorded in humans. Applicants should send a CV and a statement of interest to one of the PIs (salisburyd@upmc.edu, teichert@pitt.edu, bdoiron@pitt.edu).

Candidate Profile

- 1) Ph.D. in neuroscience, psychology, biology, physics, mathematics or other neuroscience-related discipline
- 2) One or more first-author publications in an international peer-reviewed neuroscience journal (under review is OK)
- 3) Strong data-analysis and programming skills (Matlab, R, MNE or related programming languages)
- 4) Proficient in spoken and written English
- 5) Willing and able work productively as part of a team