

Postdoctoral Position in Neuroengineering and Cognitive Engineering at the SiNAPSE Institute, Singapore

Inquiries and applications are invited from highly productive, creative and ambitious young scientists for a postdoctoral fellowship in the recently launched the SiNAPSE Institute (www.sinapseinstitute.com) – a multidisciplinary research Institute devoted to research on neurotechnologies, cognitive sciences, neuroengineering, and translational and clinically motivated research at the National University of Singapore under the direction of Prof. Nitish Thakor (www.jhu.edu/nthakor). For this project, the postdoctoral fellow is expected to interact with PIs at the SiNAPSE Institute (Profs Nitish Thakor and Anastasios Bezerianos), as well as collaborators at Nanyang Technological University (Prof. Justin Dauwels and others) and International Collaborators (Prof. Hasan Al-Nashash). Candidates with a PhD degree in Electrical and Computer Engineering, Computer Science, Neurosciences or Neuroengineering with outstanding skills and credentials are invited to apply for appropriate positions in the Institute.

The main objectives of the research project are (but not limited to):

1. Cognitive science studies involving attention, vigilance, benefits of training, novel modes of cognitive enhancement and learning.
2. Mathematical modeling of brain connectome from EEG, ERP, fNIR and fMRI,
3. Principled statistical models for merging different brain imaging modalities (EEG/MEG/fMRI/DTI).

The researchers will have access to impressive financial and physical resources, including noninvasive human and small animal experimental facilities, laboratory instrumentation, computing and imaging resources, and additional project-specific discretionary funding. SiNAPSE will provide excellent work conditions (an environment about 20 collaborative PIs and more than 100 researchers in steady state). The salaries will be internationally competitive and commensurate with experience, and health insurance coverage as well as travel to international conferences will be included. Interested researchers and fellows should contact as soon as possible Prof. Nitish Thakor (sinapsedirector@gmail.com) and Justin Dauwels (jdauwels@ntu.edu.sg) sending a CV with two external references and a letter of accomplishments, motivation and career goals.