

Professor David B. Grayden is Clifford Chair of Neural Engineering in the Department of Biomedical Engineering, Melbourne School of Engineering and the Graeme Clark Institute for Biomedical Engineering. He received the BE (Hons) degree in Electrical and Electronic Engineering in 1990 and the BSc degree in Computer Science in 1991, and the Ph.D. degree in 1999 from The University of Melbourne. He is a Senior Member of IEEE and Fellow of Engineers Australia.

Prof Grayden's main research interests are in understanding how the brain processes information, how best to present information to the brain using medical bionics, such as the bionic ear and bionic eye, and how to record information from the brain, such as for brain-machine interfaces. He is also conducting research in epileptic seizure prediction and electrical stimulation to prevent or stop epileptic seizures, and in electrical stimulation of the vagus nerve to control inflammatory bowel disease.

Prof Grayden has research linkages with the Bionics Institute, St Vincent's Hospital Melbourne, Royal Melbourne Hospital, University of South Australia, Western Sydney University, University of New South Wales, Florey Institute for Neuroscience and Mental Health, and IBM Research. He teaches BioDesign Innovation in the Biomedical Engineering program at the Melbourne School of Engineering, and contributes to the Neuroscience Research Training course.