



Client is in the semiconductor industry by developing strategic competencies, innovative technologies and intellectual property; enabling enterprises to be technologically competitive; and cultivating a technology talent pool to inject new knowledge to the industry.

BIOELECTRONICS PROGRAMME

Research Scientist/Senior Research Engineer– Medical Devices

The successful candidate will play a significant role in the development of a novel wireless neural interface to restore physiological function based on silicon probe array.

The specific activities involve:

- Simulation and analysis of tissue-penetration mechanics of various probe designs
- Experimental validation of probes for stability and consequent tissue response
- Interaction with clinicians to identify key applications and specifications
- Coordination with a team of engineers to facilitate assembly and biocompatible packaging of the probe array and its interface with wireless signal readout circuits
- Collaboration with external researchers to conduct pre-clinical animal studies
- Active participation in the identification of applications for new neuroelectronic microsystems in close interaction with management

Requirements:

- A PhD degree in mechanical, electrical or biomedical engineering with major strength in silicon-based (MEMS) probe technology for neural interfaces
- Practical knowledge of silicon-based microfabrication and packaging
- Understanding of bioelectricity and fundamentals of neuroelectronic interfaces
- Capability to work in a highly interdisciplinary team of researchers
- Excellent communications skills in oral as well as technical writing

Interested candidates are invited to submit your latest updated resume stating your availability of employment, current, achievements and expected salary to Adrian Collin Png at: adrian@collincrawford.com