

<b>Project Title</b>	Microfabricated multimodality probes for minimally invasive monitoring the brain
<b>Supervisor</b>	Prof Martyn Boutelle
<b>Theme(s)</b>	Biomedical sensing diagnostics and imaging Medical Devices
<b>Project Description</b>	<p>The MGB Group has a long history of developing novel devices to monitor the acutely injured human brain. This project comes from an on-going research collaboration with Professor George Malliaras in Cambridge.</p> <p>We are using micro fabrication techniques to make highly flexible probes that combine both the measurement of local field potentials in the brain with chemical measurements. The probes are designed to lie on the surface of the cortex of the human brain and flexible enough to move with the brain.</p> <p>We have made prototype devices and the project would involve evaluating the performance of these for picking up neurochemicals in vitro, and then using this information to help design new improved devices.</p> <p>The project will be supported by PhD student de-Shaine Murray.</p>