

Project Title	Neonatal EEG Electrode Cap
Supervisor	Prof Martyn Boutelle
Theme(s)	Biomedical sensing diagnostics and imaging Medical Devices
Project Description	<p>The use of electroencephalogram (EEG) electrode caps in neonatal care presents unique challenges surrounding electrode placement and fixation.</p> <p>This project will develop a neonatal EEG cap using soft, flexible conducting polymer composites called conductive elastomers. The scope of this project covers the design and fabrication of an EEG electrode array cap, development of an interface to monitor 10-20 electrode channels, and validation of biological signals from human subjects.</p>