Project Title	Printing of flexible polymer bioelectronics
Supervisor	Dr Rylie Green
Theme(s)	Regenerative Medical and Biomaterials Medical Devices
Project Type	Lab based
Project Description	The overall goal of this project is to investigate the feasibility of fabricating well defined patterns of conducting polymer-based bioelectronics through printing (inkjet or melt electrospin writing). This technique takes advantage of the viscous liquid phase dispersion of the conductive polymer in solvent to enable printing through a small diameter nozzle. Use of thermal processes will be investigated as methods to control viscosity and printing tolerances. Students with robotics interests will have an opportunity to build a bespoke printer which can be controlled through CAD file geometries and used to create 3D implants from the extruded material.