

Project Summary – INTERN2



PROJECT INFORMATION

BeFC produce paper-based fuel cells that use enzymes to convert natural fuels (glucose and oxygen) into electricity. BeFC technology provides an environmentally-friendly, thin, flexible and metal-free energy source for low-power electronics.

This student project will involve studying the power requirements of a system on a chip (SoC) platform designed for Bluetooth Low Energy (BLE) mesh networks, along with auxiliary sensors (e.g., temperature, inertia, pressure). The student will then optimise firmware in order to achieve a suitable tradeoff between application performance and power usage.

Finally, the student may explore the memory allocation behavior of on-chip, embedded and external memory based on power mode (sleep/wake/rest) state and near-field communication (NFC) interaction.

A range of electronic test equipment will be available to the student to complete the project (e.g., oscilloscope, digital multimeter, current waveform analyser).



PROJECT SCHEDULE

