



PhD Scholarship bioelectronics and materials science

About the Project

A fully funded PhD scholarship is currently available for an exceptional student with an interest in both sustainable and degradable bioelectronics and materials science. The goal of this project is to develop various laser-scribed graphene (LSG) paper (bio)electronics from lignocellulosic grape marc waste. Such bioelectronics would be of interest in disposable consumer electronics, including skin electronics, medical diagnostics, sustainable energy applications and electrochemical synthesis.

During the course of the project, the student will gain skills in materials science, including chemical functionalisation of materials and materials characterisation, electrochemistry and device fabrication and engineering.

The project is a part of a larger research collaboration on the research programme, ‘Waste to Treasure: Using novel chemistry to valorise residual plant materials’, funded by the Ministry of Business, Innovation and Employment (MBIE), New Zealand.

Our team is also affiliated with the MacDiarmid Institute, which provides an additional network of expertise for the PhD students to tap into. The successful applicant will have access to a thriving postgraduate community and opportunities to partner with industry, to develop soft skills, and for commercialisation of their work.

Candidates must meet the academic and English language requirements for entry into the PhD programme at The University of Auckland.

<https://www.auckland.ac.nz/en/study/applications-and-admissions/how-to-apply/postgraduate-admission/doctoral-applications.html>

The applicant is expected to start in early 2024 and to have either BScHon or MSc degree. Applications will be assessed as they are received and continue until the position is filled.

If interested, send an email to

Prof. Jadranka Travas-Sejdic j.travas-sejdic@auckland.ac.nz with your **CV**, **academic transcripts**, and a **brief cover letter** (max 1 page).