

## Project Description:

A fully funded PhD scholarship is currently available for a student with an interest in the development of biomaterials from sustainably produced plant feedstocks. The goal of this project is to develop materials from either macroalgae cultivated in the bioremediation of wastewater streams, or residual macroalgal biomass from biorefineries targeting other products (e.g. minerals, pigments, soluble fibre, and proteins). A particular focus of this project will be to exploit the unique properties of the cellulose, found in high quantities in macroalgae, in novel new materials (e.g. fibres, films, and composites). Depending on the scale of production and the lifespan of the biomaterials produced significant contributions to carbon sequestration is likely. During the course of the project the student will gain experience in biorefinery design, chemical synthesis, purification, and characterisation, and the preparation and testing of biomaterials. Thus, the successful applicant will have a strong chemical background with an interest in materials science.

We are looking for a student to start by the beginning of 2020.

## Eligibility criteria:

Postgraduate

Full-time

Domestic/PR students/International

## Application documents required:

- CV
- A brief cover letter
- Academic transcript

## Contact and email address for applications:

Dr Christopher Glasson

[christopher.glasson@waikato.ac.nz](mailto:christopher.glasson@waikato.ac.nz)

## Closing date:

No set closing date. Applications will close when a suitable applicant is selected