Masters scholarship – Circular Economy/Material Flow Research
Āmiomio Aotearoa: A Circular Economy for the Wellbeing of New Zealand

Background: The current linear extract-produce-use-dispose material flow model of the modern economic system is unsustainable and needs to be addressed. We have a Masters scholarship as part of the MBIE Endeavour project “Āmiomio Aotearoa: A Circular Economy for the Wellbeing of New Zealand” (funded $10.9M, 2020 – 2025). The project is a collaboration between the University of Waikato and others (Canterbury, Massey, AUT, Otago), Scion and Landcare. It aims to pave the way through materials science, engineering, energy, economics, kaupapa Māori, business, law and regulation, social science and public policy for a more sustainable New Zealand.

As a Masters student in the School of Engineering at the University of Waikato, you would be a part of this transitional programme, focused on assessment of material flow through the building and construction sector, interacting with others researching across the spectrum of the circular economy. A prime focus would be to develop a database of construction material flow to assess state of art materials utilisation and waste for building construction, and identify and make recommendations on prime waste material candidates for incorporation into novel building materials. Your ideal background:

- a relevant degree, BE or BSc or soon to complete - e.g. materials and process/chemical/mechanical engineering/architecture/civil
- passion for the application of sustainable materials
- a professional attitude, good writing and time management skills
- a willingness to learn, up-skill and work in multidisciplinary group
- current residency in NZ

Value: $20,000 + up to $4,000 (1 year) and financial support for research materials and travel

Application documents required
- CV including contact details for 2-3 referees (including at least one academic reference)
- Academic transcript from previous study undertaken
- A personal statement (max 1 page) describing your motivation, interests and background related to the research project

Contact
For further information/confidential discussion or to apply contact Professor Kim Pickering at klp@waikato.ac.nz by August 30th, 2021