



Solid biofuel researchers

Given the extensive forestry and agricultural resources in New Zealand, the country is well served for wood and forestry focused research. For a snapshot of the leading researchers in this area see below:

Scion

Scion is the lead research organisation on forestry and wood in New Zealand. Scion is a New Zealand Crown Research Institute (CRI) that specialises in research, science and technology development for the forestry, wood product and wood-derived materials and other biomaterial sectors. Their purpose is to drive innovation and growth from these sectors to build economic value and contribute to beneficial environmental and social outcomes for New Zealand.



Scion is the leading CRI in the following bioenergy related areas:

- Sustainable forest management and tree improvement;
- risk management and mitigation;
- wood processing, wood-related bioenergy, waste streams and other biomaterials;
- forestry, and
- forestry-based ecosystem services to inform land-use decision making.

Scion collaborates with other research providers and end-users to develop:

- land-based biosecurity, soil and freshwater management;
- climate change adaptation and mitigation;
- indigenous forestry;
- industrial biotechnology and high-value manufacturing.

Scion has led the work on the following key activities in the NZ Wood Sector:

- Bioenergy Options Project - see [here](#) for a summary and the project reports
- Woodscape - see [here](#) for an update on the Woodscape project.

University of Canterbury:

[The Wood Technology Research Centre](#) at the University of Canterbury was fully established at the end of 1996 as a means of information exchange among staff engaged in wood-related research, to facilitate the shared use of research facilities, enhance research programmes and to promote technology transfer to end users.



The Centre organises workshops and seminar, it co-ordinates visits of wood scientists and technologists to the University. The Centre has links and collaborative projects with both international and national

research institutes. The centre members undertake research projects funded by the New Zealand Government and industries.

Lincoln University:

Further details on Lincoln's Forestry activities can be found [here](#).

NZ Institute for Plant and Food Research

The Institute facilitates biofuel production that is sustainable and not in competition with food crops. Biogas research expertise includes feedstock pretreatment, digester microorganisms optimisation, interfacing anaerobic digestion with algae production, and use of digestate on crops. [More here](#).



Bioenergy Cropping Solutions (BCS)

BCS is the leading research provider and consultancy on New Zealand non-woody cropping systems to supply bioenergy and biofuel facilities. These crops, both new and familiar, can be grown without competing for prime arable crop land. BCS offers expertise in best matching of species to your farm location, crop establishment, optimal crop management (weeds, water needs and use of biogas digestate for fertiliser), harvest timing, biomass handling, and (if needed) pre-treatment of biomass for use in biogas production.

National Energy Research Institute (NERI)

NERI is a membership organization whose primary purpose is to enhance New Zealand's sustainability and to benefit the New Zealand community by stimulating, promoting, co-ordinating and supporting high-quality energy research and education within New Zealand. Membership is open to any New Zealand research organisation. www.neri.org.nz

NERI's current priorities are:

- To help build a consensus over the energy research New Zealand needs in the medium-term through energy research strategy.
- To promote areas of energy R&D where New Zealand is particularly strong, and give easy access to energy related papers authored or published by New Zealanders.

Waikato University Energy Research Group

The goal of the Energy Research Centre is improved competitiveness for NZ industry through research aimed at achieving increased energy efficiency and conservation. www.energyefficiencynz.com

IEA Bioenergy

The IEA Bioenergy programme provides access to international research on all bioenergy and biofuels topics relevant to New Zealand, Australia and the Pacific.

Scion is the New Zealand representative and co-chair of the IEA Bioenergy Programme.

For information on the specific research activities relevant to New Zealand, Australia and the Pacific link www.bioenergy.org.nz/pacific-se-asia-opportunities.