



A critical component of any aquaculture activity is access to robust scientific information, research, development, and the piloting of new technology. The following are some of the many organisations that offer these components, delivering scientific research, support, and technological advances in the aquaculture industry.

Amalgamates Solutions and Research Limited (ASR Ltd)

ASR Ltd is a multi-disciplinary company established in 1998, focussed on innovation and research and development. Studies that ASR Ltd have carried out include marine farming, environmental assessments for the oil industry, estuaries and harbours, ports, sewerage outfalls, pollution dispersal, and ecology.

For more information, please visit www.asrltd.co.nz

Cawthron Institute

The Cawthron Institute is a private, independent and not-for-profit organisation that provides research and support services to the seafood industry. Its research covers aquaculture, marine and freshwater ecology, invasive marine species and toxic algae. Cawthron has established the Glenhaven Aquaculture Centre Ltd as a purpose-built facility for aquaculture research. The Centre has a state of the art system for juvenile production and aquaculture research. Current research includes: Greenshell Mussels, Pacific Oysters, Paua, seaweeds, and the use of sea water ponds.

Cawthron's commercial groups provide specialist advice for aquaculture developments and other water-based activities. They can help with site selection and obtaining consents for aquaculture. Analytical laboratories offer a full range of testing services. For aquaculture, these include water quality, seafood quality, toxic algae monitoring and biotoxin testing.

For more information, please visit www.cawthron.org.nz

Crop and Food Research

Crop and Food provides scientific research to support the sustainable production of food and new biomaterials. Its areas of expertise include biotechnology; sustainable environmental management and food production; nutrition and health; the production of innovative biomaterials; and advanced post harvest technology.

In addition to the scientific research above, an annual Māori scholarship provided by Crop and Food provides up to four months paid vacation employment at one of Crop and Food Research's New Zealand sites, which promotes Māori involvement in science.

For more information, please visit www.crop.cri.nz

Foundation for Research and Technology (FRST)

FRST invests in research, science and technology on behalf of the New Zealand Government to enhance the well-being of New Zealanders. FRST has a commitment to supporting Māori Development research that recognises Māori have a rich heritage of innovation. This has been driven by cultural necessity and based in Aotearoa's unique natural environment. FRST is also committed to developing Māori Research, Science and Technology capability including skills and funding that will enable Māori to participate in advanced technology and future premium-earning sectors of the economy.





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One such opportunity is the Māori Collectives initiative. In this initiative, Māori collectives (iwi authorities, trust boards or incorporations, rūnanga, hapū, whānau or whenua-based trusts, and marae committee) are provided for. It has been specially devised to assist Māori collectives that, for mostly commercial reasons, are ineligible for other grants within the scheme, yet have access to or control of scarce or valuable resources with clear commercial potential.

For more information, please visit www.frst.govt.nz

HortResearch New Zealand

HortResearch specialises in the creation of new fruit varieties, technologies and products, and also provides research expertise for plant-based biotechnology. The Māori Business Development Team at HortResearch leads the development of research and business partnerships with Māori. The alignment of HortResearch science with hapū, iwi and commercial entities provides opportunity to improve outcomes for Māori.

For more information, please visit www.hortresearch.cri.nz

Institute of Environmental Science and Research Ltd (ESR)

ESR provides specialist science solutions related to public health, environmental health and forensic science. Its particular capabilities are in chemical and microbiological contaminants, and surveillance of diseases and hazards.

The ESR has a Māori Development Fund of \$30,000 per year to attract and support Māori into science as a professional career. Scholarships and Fellowships are also available to provide funding for Māori students studying towards Masters and PhD qualifications.

For more information, please visit www.esr.cri.nz

Maumahara Aquaculture Limited

The focus of Maumahara is to provide whānau, hapū and iwi with specialist advice on aquaculture and fisheries issues, particularly with economic growth and development. Maumahara is a whānau-based company that delivers aquaculture and fisheries management expertise. They also research and develop the potential for rock lobster farming from its Turanganui ā Kiwa base.

Maumahara provides quality advice in the following areas:

- Aquaculture feasibility studies
- Research and development
- Business planning
- Project management
- Fisheries stock assessment
- Facilitation and industry training

For more information, please visit www.maumahara.co.nz

National Institute of Water and Atmospheric Research (NIWA)

NIWA's National Centre for Fisheries and Aquaculture has a large team of aquaculture specialists and dedicated facilities in New Zealand and is able to help with all aspects of aquaculture. NIWA provides aquaculture advice and services to industry, iwi, community groups and government agencies.

NIWA has three research facilities established throughout New Zealand. Bream Bay Aquaculture Park was established to bridge the gap between research and commercialisation of aquaculture in New Zealand. The Mahanga Bay Facility in Wellington focuses on development of new technologies for farming cold-water species while Silverstream, situated north of Christchurch, is NIWA's salmon research centre.

NIWA has established a Māori Research and Development Unit named Te Kūwaha o Taihoronukurangi. Te Kūwaha provides a gateway for iwi and Māori organisations to carry out research that underpins the wide range of interests that Māori have in aquaculture. Māori scientists trained in freshwater and marine aquaculture are based at each of the three aquaculture facilities listed above. More recently, as Te Kūwaha has grown, it has been possible to strategically plan the opportunities for iwi to lead and be collaboratively involved in research directly with iwi.

For more information, please visit www.niwa.co.nz

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REF: 0106-003
MAY 2007