



**MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT**
HĪKINA WHAKATUTUKI



**INTERNATIONAL
BIOECONOMY
FORUM**

INTERNATIONAL BIOECONOMY FORUM
ICT IN PRECISION FOOD SYSTEMS

EXPRESSION OF INTEREST

A CALL FOR PARTICIPATION IN THE ICT IN PRECISION FOOD SYSTEMS:

- 2019 NATIONAL WORKSHOP
 - 2019 INTERNATIONAL TECHNICAL MEETING
-



The Ministry of Business, Innovation & Employment (MBIE) invites Expressions of Interest from New Zealand-based researchers in relevant fields to attend two International Bioeconomy Forum (IBF) Working Group events in Information and Communications Technology (ICT) in Precision Food Systems:

- > a National Workshop
- > an International Technical Meeting

The IBF is a flexible multilateral mechanism for global research and innovation partners to address key issues in the bioeconomy. "ICT in Precision Food Systems" is one of four working groups in the IBF, and is led by New Zealand.

The vision of the ICT in Precision Foods Systems Working Group is to foster collaboration in science across multi-scale, cross-disciplines, challenges, barriers, and gaps related to the development, adoption, and implications of digital technology to all aspects of the food system from production to consumption to support a sustainable bioeconomy.

This Working Group is hosting two events to develop a research plan centred around their key research topics:

- > How ICT can:
 - Assist in both evaluating and responding to emerging disruption in agri-food systems
 - Optimise post-harvest resource efficiency
 - Enable transparency and traceability along the value chain
 - Improve production efficiency and quality of human-machine interactions
- > The ICT technologies are required to achieve a just transition
- > The barriers to ICT adoption in precision food systems
- > How ICT adoption can be increased
- > How we can identify and measure important variables.

All New Zealand researchers are invited to apply to attend the National Meeting.

Five researchers from the National Workshop will be funded to attend the International Technical Meeting.

All other National Meeting attendees are invited to attend the International Technical Meeting, but will be required to cover their own costs.

ICT in Precision Food Systems National Workshop Objectives

The National Workshop will:

- > Develop and promote and collaboration opportunities in ICT in Precision Food Systems research
- > Form a New Zealand perspective on ICT in Precision Food Systems for discussion at the upcoming IBF international meetings, including the ICT in Precision Food Systems International Technical Meeting in Europe
- > Provide opportunities for national collaboration to synergise research development across teams
- > Identify mechanisms to transfer of knowledge to a wide range of users across New Zealand.

ICT in Precision Food Systems International Technical Meeting Details

The International Technical Meeting will bring together researchers from IBF member or observer countries to develop international research strategies and action plans on this topic. Researchers will be invited from Canada, New Zealand, USA, Argentina, China, India, South Africa, Australia, South Korea, Japan, and the European Commission.

The meeting will be held in Europe, mid to late September / early October 2019.

MBIE will cover the costs of direct travel, accommodation, food and other reasonable costs for five successful applicants up to NZD \$8,000 (including GST) each. Full details of this meeting will be provided to the successful applicants.

ICT in Precision Food Systems National Workshop Details

| | |
|---|---|
| Purpose | Provide New Zealand-based researchers with an opportunity to connect. Develop a New Zealand perspective on ICT in Precision Food Systems for delivery and discussion at upcoming IBF international meetings, including the 2019 ICT in Precision Food Systems International Technical Meeting in Europe. |
| Hosts | The ICT in Precision Food Systems Working Group: > Max Kennedy, MBIE > Jolon Dyer, AgResearch > Roger Robson-Williams, Plant & Food Research |
| Duration | 1 day |
| When | 19 August 2019 |
| Location | Wellington, New Zealand |
| Attendees | > Up to 35 New Zealand-based researchers in a range of research fields associated with ICT in Precision Food Systems > Representatives from MBIE and the Ministry for Primary Industries (MPI). |
| Costs, Travel and Administration | These will be met and handled by the successful applicants. |
| Further information | Full workshop details will be sent to the successful applicants. |

Participant Eligibility and Selection Criteria

ICT in Precision Food Systems National Workshop

We are seeking a delegation that covers a diverse range of interests, skills and institutions within New Zealand. The delegation will include participants that are:

- > Recognised experts in their field or early-mid-career researchers recognised as potential future science leaders
- > Technically proficient in one or more areas of both current and non-traditional research relevant to ICT in food systems, including methods, approaches and tools
- > Visionary and forward thinking, demonstrating use of novel and innovative approaches to building a significant research programme
- > Able to align selection of the research issue(s) or problem(s) with broader strategic goals of an investment context
- > Have practical expertise in Vision Mātauranga
- > Stimulated by working in transdisciplinary research environments
- > Good communicators
- > Experienced collaborators, with a track record of cooperation
- > New Zealand-based researchers employed by New Zealand-based legal entities with internal research capability, that cannot be a department of the public service listed in Schedule 1 of the State Sector Act 1988.

We do not expect individual participants to possess all the capabilities sought for the overall delegation.

ICT in Precision Food Systems International Technical Meeting

We are seeking a delegation that represents New Zealand's interests in ICT in Precision Food Systems as a whole, and not their own institution or organisation. This delegation will cover a diverse range of interests, skills and institutions within New Zealand, and include participants that:

- > Were selected (as part of this Expression of Interest) to attend the ICT in Precision Food Systems National Workshop, and
- > Are able to travel to Europe, mid to late September / early October, 2019.

The Decision Making Process

Applicants will be assessed on the information supplied in their application to this Expression of Interest. Final decisions will take into account these assessments and a portfolio balance of skills. For participation in the ICT in Precision Food Systems International Technical Meeting, collaboration during the ICT in Precision Food Systems National Workshop will also be considered.

The final decisions will be made by:

Dr Max J Kennedy, PhD (MIT), FIChemE, FEngNZ, FNZIC
 Manager, Contestable Investments
 Science System Investment and Performance Branch
 MBIE

There will not be interviews.

MBIE reserves the right to request further information from applicants.

Contracting

No contracts will be required for successful applicants to attend the ICT in Precision Food Systems National Workshop.

MBIE will enter into a contract with the organisations employing the applicants selected to attend the ICT in Precision Food Systems International Technical Meeting that will set out the terms and conditions required for the workshop. A template contract will be made available.

Key Dates

| | |
|---|--|
| Expression of Interest application period | 23 July 2019 until 12 noon, 5 August 2019 |
| MBIE advises Expression of Interest applicants of ICT in Precision Food Systems National Workshop participation decisions | 6 August 2019 |
| Workshop Information Pack sent to successful National applicants | 12 August 2019 |
| ICT in Precision Food Systems National Workshop | 19 August 2019 |
| MBIE advises Expression of Interest applicants of ICT in Precision Food Systems International Technical Meeting participation decisions | 23 August 2019 |
| Meeting Information Pack sent to successful applicants | 30 August 2019 |
| ICT in Precision Food Systems International Technical Meeting | mid to late September / early October 2019 |

Any change to key dates will be notified via MBIE's [Alert](#) e-newsletter.

Submitting an Expression of Interest

Expressions of Interests to attend the ICT in Precision Food Systems National Workshop and International Technical Meeting are made by completing the ICT in Precision Food Systems Expression of Interest Application Form and emailing the completed form with the required supporting information to ibf@mbie.govt.nz.

The submission period is from 23 July 2019 until 12 noon, 5 August 2019.

These dates are subject to change. Any change will be notified via MBIE's [Alert](#) e-newsletter.

An Expression of Interest is submitted if it has received an email receipt.



INTERNATIONAL BIOECONOMY FORUM
ICT IN PRECISION FOOD SYSTEMS

ICT IN PRECISION FOOD SYSTEMS EXPRESSION OF INTEREST APPLICATION FORM

This Expression of Interest invites New Zealand-based researchers in relevant fields to apply to:

1. Attend the ICT in Precision Food Systems National Workshop in Wellington on 19 August 2019.
2. Receive funding and attend the ICT in Precision Food Systems International Technical Meeting, which will be held in Europe in September or early October 2019 (five positions available).

Email completed application forms to ibf@mbie.govt.nz. The submission period is from 23 July 2019 until 12 noon, 5 August 2019. An Expression of Interest is submitted if it has received an email receipt.

Dates are subject to change. Any change will be notified via MBIE's Alert e-newsletter.

I wish to apply for the:

Tick the box(es) that apply

| |
|--------------------------|
| <input type="checkbox"/> |
| <input type="checkbox"/> |

ICT in Precision Food Systems National Workshop.

ICT in Precision Food Systems International Technical Meeting.

You may apply to attend only the National workshop.
To attend the International meeting you must also apply for the National workshop.

APPLICANT DETAILS

| | | | |
|---|---|---------------------|--|
| Full name | | | |
| Details of your current position | Position title | | |
| | A short description of your role <i>40 words maximum</i> | | |
| Email | | Phone number | |

ELIGIBILITY

Confirm your eligibility.

Tick the box(es) that apply

| |
|--------------------------|
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |

I am a New Zealand-based researcher.

I am currently employed by a New Zealand-based legal entity with internal research capability.

I confirm that my employer endorses my application.

Your employer cannot be a department of the public service listed in Schedule 1 of the State Sector Act 1988. To be eligible to attend the ICT in Precision Food Systems International Technical Meeting, you must be selected to participate and have attended the ICT in Precision Food Systems National Workshop.

Provide details of your current organisation/employer:

Full name and address

Contact details

Name and contact details of endorser

STATEMENT OF INTENT *200 words maximum*

Outline how:

- Your skill set contributes to the National Workshop objectives
- Your attributes align with the specific National Workshop participation selection criteria
- Your interest in international collaboration in the ICT in Precision Foods sector.

BIOGRAPHY *Two-three paragraphs with head and shoulder photo*

Provide a short biography to share with workshop participants, the IBF, the ICT Precision Food Systems Working Group, and for public use by MBIE.

CV *Use the NZ RS&T CV template available [here](#)
Five A4 portrait pages maximum
Save as a PDF*


Using the NZ RS&T CV template available [here](#), provide us with your academic CV. Selected publications are sufficient. Attach this as a separate file to your submission email.

CONFLICTS OF INTEREST

Declare any existing professional cooperation you have/have had MBIE and/or the IBF's the ICT Precision Food Systems Working Group.




The ICT in Precision Food Systems Working Group




Max Kennedy
Manager, Contestable Investments, MBIE

Working Group Lead
ICT in Precision Food Systems



Jolon Dyer
Associate Research Director, AgResearch

Working Group Sherpa,
ICT in Precision Food Systems



Roger Robson-Williams
General Manager of Science – Sustainable Production, Plant and Food Research

Working Group Sherpa,
ICT in Precision Food Systems

Collaboration in ICT science and technologies to transform food and bio-based product systems to enable a sustainable bioeconomy

Further Information

Expression of Interest Queries

Email ibf@mbie.govt.nz

IBF

Visit <https://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=ibf>

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