NEW ZEALAND
INNOVATIVE PARTNERSHIPS

# Biotechnology Innovation in **New Zealand**

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

New Zealand Government

# **New Zealand** – your partner in biotech.

New Zealand's bioeconomy is underpinned by a long tradition of applying research to wide ranging issues in human and animal health, food, agriculture and energy.

We have a growing number of high tech companies whose core business is biotechnology. In 2016 New Zealand was ranked 4th out of 54 countries in the Scientific American Worldview Scorecard for Innovation Potential in Biotechnology.

**This is driven by a great climate for doing business, world-class researchers and an innovative workforce.**

**We have a reputation for:**

- Open for Business
- Skilled and Innovative People
- Clinical Trials
- Rich history in protein development
- Excellent animal health status for animal-based therapeutics
- Unique natural ingredients
- Medicinal plant growth for the pharmaceutical industry
- Strong links to Asia
- Collaborative research environment
- Research excellence
- Environmental microbiology

# Connected, agile and the **best place for business.**

New Zealand has a simple, well-designed and transparent regulatory system.

New Zealand offers an environment where the ease of doing business is amongst the best in the world, with robust adherence to standards and rules of trade, a stable government and lack of corruption.

**HOW WE RANK:**

**1ST** Ease of Doing Business **2018**

**2ND** Top place to live for Expats **2018**

**3RD** Index of Economic Freedom **2018**

**2ND** Least corrupt nation in the Corruption Perception Index **2019**

**3RD** Global Creativity Index **2015**

**2ND** Prosperity Index **2018**

**2ND** Open Government Index **2015**

**4TH** Innovation Potential in Biotechnology, SA Worldview Scorecard **2016**

**8TH** Rule of Law Index **2019**

# New Zealand's **unique strengths...**

### Strong clinical trial expertise

New Zealand's clinical trial environment possesses key fundamentals that support clinical trials. These include an efficient ethics and regulatory framework which results in fast speed to start-up, high-quality research facilities and a diverse participant recruitment pool. We have an English-speaking health sector with well-respected physicians and hospitals.

### Rich history in protein development

New Zealand has developed a strong history in production, which has created strong expertise in enabling platform technologies around protein. This aligns with one of the most significant global nutrition trends – a rapidly increasing demand for high-quality protein production and protein extracts.

### Excellent animal health status for animal-based therapeutics

New-Zealand's livestock have one of the highest disease-free status levels globally. From land use availability, animal health services and a highly skilled workforce through to innovative agricultural technology and world-class agri-bio research and manufacturing facilities, New Zealand has the capability to support international companies developing human therapeutics that require animal-derived ingredients.

### Unique natural ingredients

New Zealand has deep agricultural roots: a favourable climate, fertile soil, geography and agricultural ingenuity have positioned the country as a global leader in the production of natural ingredients. New Zealand is also home to many indigenous plants which are often rich in desirable bioactives. Products range from high-value nutritional food products through to functional foods and ingredients.

### Medicinal plant growth for the pharmaceutical industry

New Zealand offers many significant advantages to the production of medicinal plants for the pharmaceutical and consumer health industry. These include its favourable climate and counter seasonal production benefits, risk management for those seeking risk diversification, and experienced growers with well-developed relationships with agricultural research organisations. New Zealand properties can result in increased amounts of active ingredients and lower levels of residues that can be difficult to remove from end products.

### Environmental microbiology

Unique microbes combined with New-Zealand's clean green status and novel research have resulted in many unique industrial and environmental microbe based applications, from waste stream-derived biofuels to thermophilic enzymes.

# ...give us an edge in **biotechnology.**

### Strong links to Asia

Multinationals can use their footprint in New Zealand to secure a sustainable supply of high-value ingredients, and provide them with strategic access to Asian markets. New Zealand's location with respect to Asia provides a highly advantageous time zone for doing business there, and New Zealand has Free Trade Agreements in place with much of the Asian market. The New Zealand brand and image carry a good reputation with consumers in these markets, with recognition that New Zealand is a global leader in ingredient safety and product traceability.

### Collaborative research environment

New Zealand has high levels of research collaboration within and between universities, Crown Research Institutes, Centres for Research Excellence and other research programmes. As an example, the High Value Nutrition National Science Challenge, which is strongly supported by the government, brings together different research groups from across the country to accelerate priority health targets that align with consumer driven food-for-health trends. Compared to global levels, New Zealand's level of international collaboration is high.

### Research excellence

Significant levels of high-quality biotechnology research is conducted by the higher education sector in all of New Zealand's 8 major universities (two of which are among the world's top 100 life science and medicine universities), Centres of Research Excellence and niche research institutes – including the Liggins Institute and the Malaghan Institute of Medical Research. Research institutes include New Zealand's government-funded Crown Research Institutes, with each specialising in a field of research such as forestry, pastoral research or industrial research.

# Tax that is **simple and fair.**

The New Zealand tax system is simpler (and less taxing) than most.

**0%**
Payroll tax
Social security tax
Capital gains tax

**15%**
R&D Tax credit incentive

# Highly skilled and **educated workforce.**

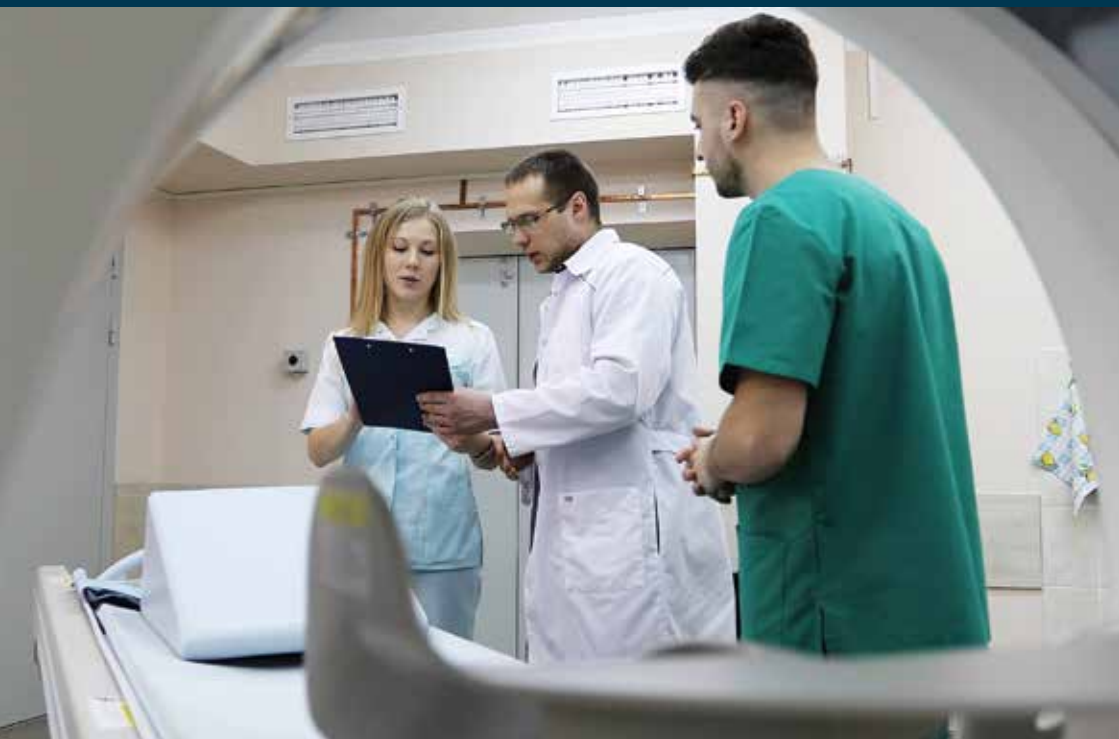
New Zealand's workforce is highly trained and inter-connected. Our size and location makes us distinctively innovative and collaborative.

New Zealand ranks 2nd for our highly educated life science workforce[1], and is home to two of the world's top 100 life science and medical universities[2]

New Zealand ranks 2nd out of 54 countries for the number of biotechnology patents filed - as a percentage of all patents filed with PCT[3]

New Zealand ranks 7th for developing and deploying talent[4]

1 Scientific American Worldview 2016
2 QS global life science and medical university rankings 2018
3 Scientific American World View 2016
4 Human Capital Report, World Economic Forum 2017



# Connect. Collaborate. Invest.

The Innovative Partnerships team and the BIO2019 New Zealand delegation is dedicated to helping biotechnology research and development investors connect, collaborate and invest in New Zealand.

Our small size and inter-connected research system makes global collaboration easy.

The **Innovative Partnerships** team sits in the heart of government and works to create environments in New Zealand that are perfectly suited to testing and developing new and disruptive technologies.

In addition, Innovative Partnerships provides a specialized concierge service for deep tech companies looking to do R&D in New Zealand. We will link you with all the potential partners you need to conduct one-of-a-kind research projects in New Zealand.

**We can help you:**

- Navigate and understand New Zealand's R&D eco-system
- Benefit from our straightforward and high-quality regulatory system
- Connect you to immigration, visa and customs experts so that you can easily bring your R&D business here
- Take advantage of New Zealand's streamlined tax system and new R&D tax incentive

**Talk to us to discover the opportunities for your business in New Zealand**

BIOTECH NEW ZEALAND

CallaghanInnovation
New Zealand's Innovation Agency

NEW ZEALAND TRADE & ENTERPRISE
Te Taurapa Tūhono

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INNOVATIVE PARTNERSHIPS

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