BIOCIDE TOOLBOX

Developing greener biocides

Suppliers' Day 2017

Adeline Le Cocq
a.lecocq@auckland.ac.nz

Our host, partners and collaborating organisations

THE UNIVERSITY OF AUCKLAND
Te Whare Wānanga o Tāmaki Makaurau
NEW ZEALAND

SCION
FORESTS ▪ PRODUCTS ▪ INNOVATION

CAWTHRON INSTITUTE

UNIVERSITY of OTAGO
Te Whare Wānanga o Otāgo
NEW ZEALAND

uniservices
IDEAS TO LIFE

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

CallaghanInnovation

Our Team

MEDICAL & HEALTH SCIENCES | SCIENCE | ENGINEERING

17 Leading Scientists
4 Research Institutions
3 Interdisciplinary Faculties
6 Commercial Staffs

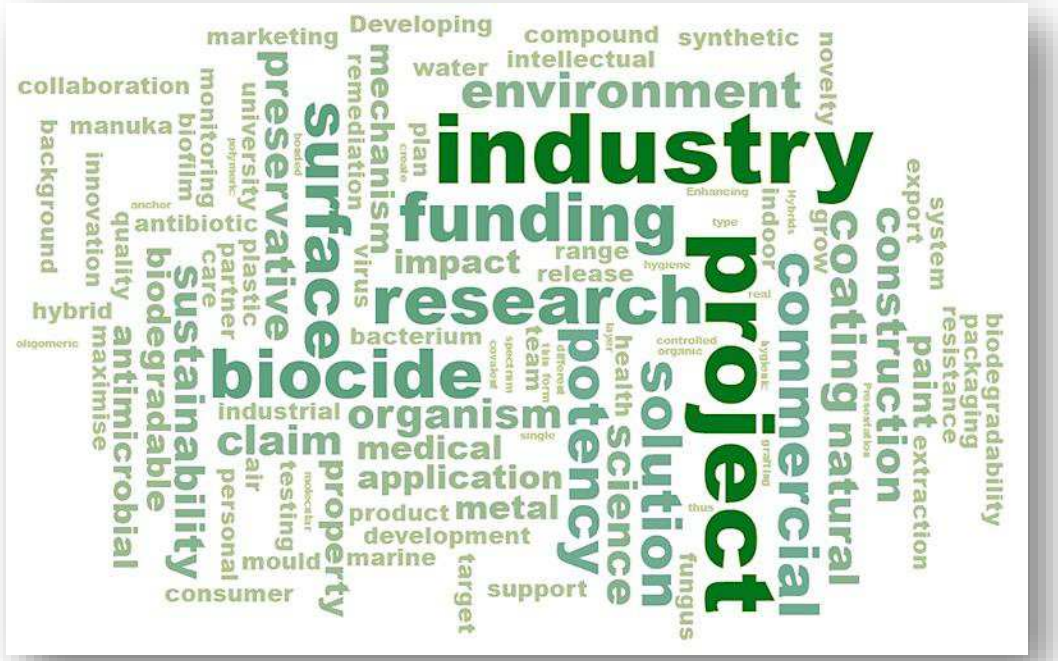
Our Goal

Developing a toolbox of new greener biocides applicable in commercial and healthcare contexts which contribute to NZ export growth

Our Work

Core Research

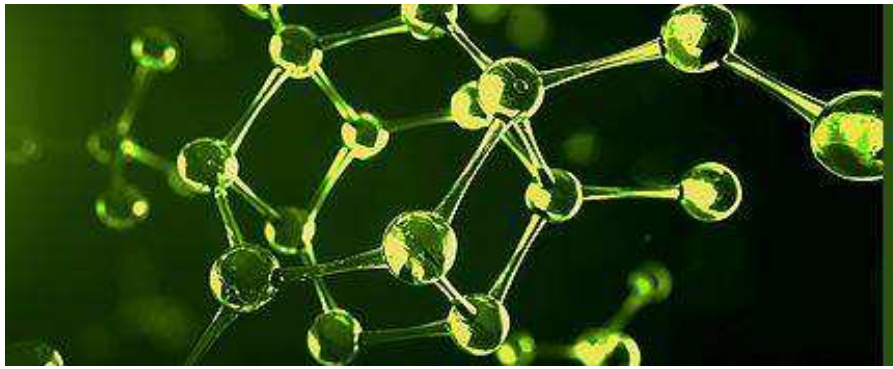
Industry Projects





Core Research

1. New Designer Biocides



Developing new molecules using biodegradable linkers for reduced environmental impact, higher potency and slower release

New Cyclic
Antimicrobial Agents

New Designer
Bactericidal Polymers

Eco-Friendly Marine
Anti-Fouling Agents



Core Research

2. Natural-Synthetic Hybrids

Combining synthetic and natural biocides to use different ranges of potencies against a wide range of organisms

Grape Tannins Based Active Plastic Materials

Fungus Derived Antimicrobials

Core Research

3. Surface Presentation






Enhancing antimicrobial activity of surfaces

Optimal presentation of actives to targets

Achieving long term biocidal activity

Solid/Biocide/Bacteria Interface Imaging

Antimicrobial Polymeric Surfaces

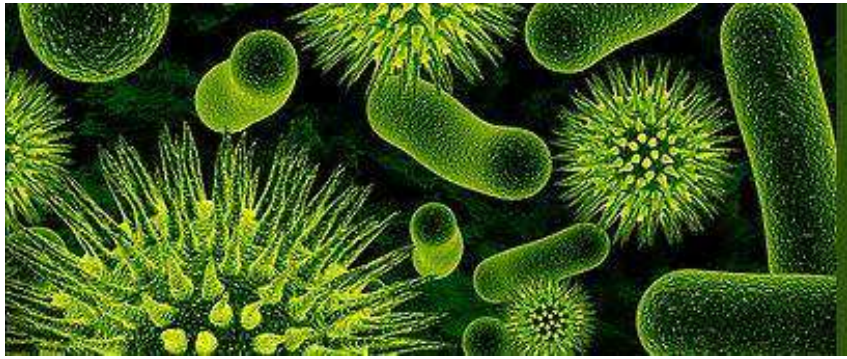
Absorption of Antibacterial Polymers to Metal Surfaces

Core Research

4. Microbiology



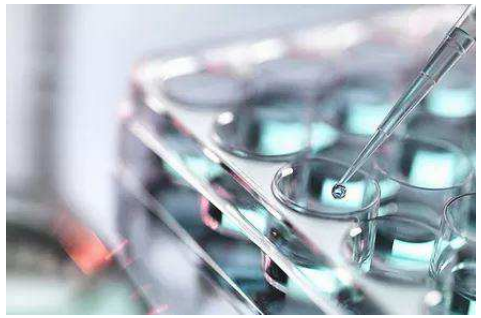




Understanding biocidal mechanisms and targets

From lab testing to real life applications

Measuring activity and environmental impact



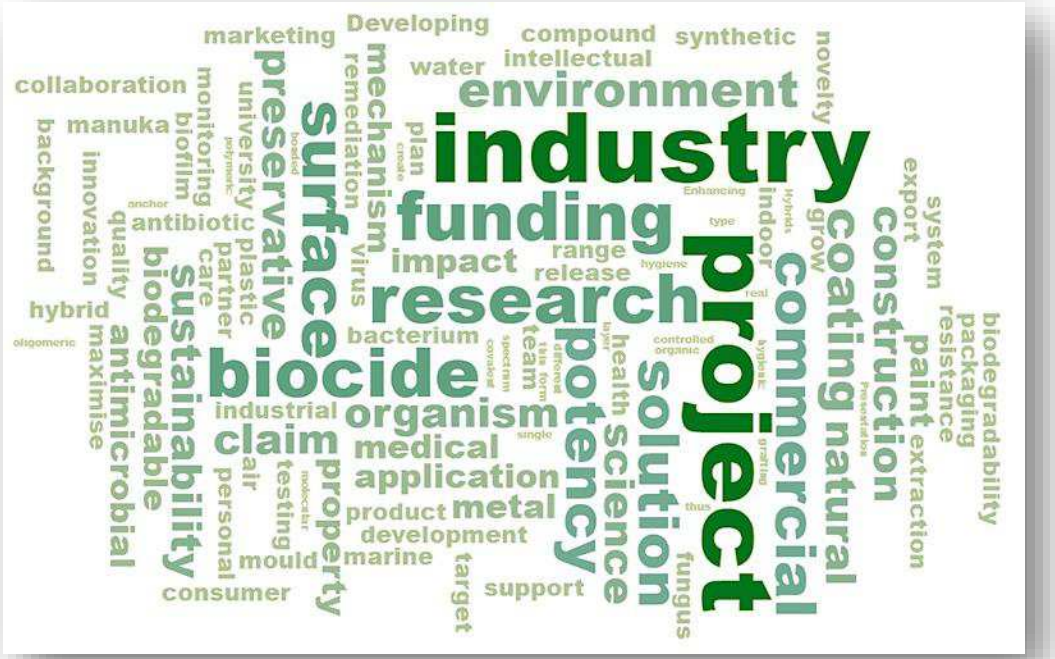
Mechanisms of Action of Biocides

Biocides Options to Control the Transmission of Pathogens

Our Work

Core Research

Industry Projects

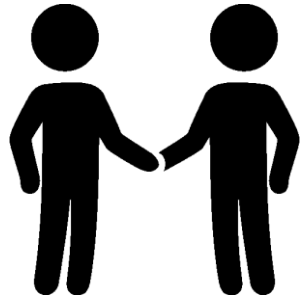


Industry Projects

- Listen to YOUR needs to take your R&D or your products to the next level

- Discuss the most appropriate Research pathway considering the timeframes and resources involved

- Find the best funding options available



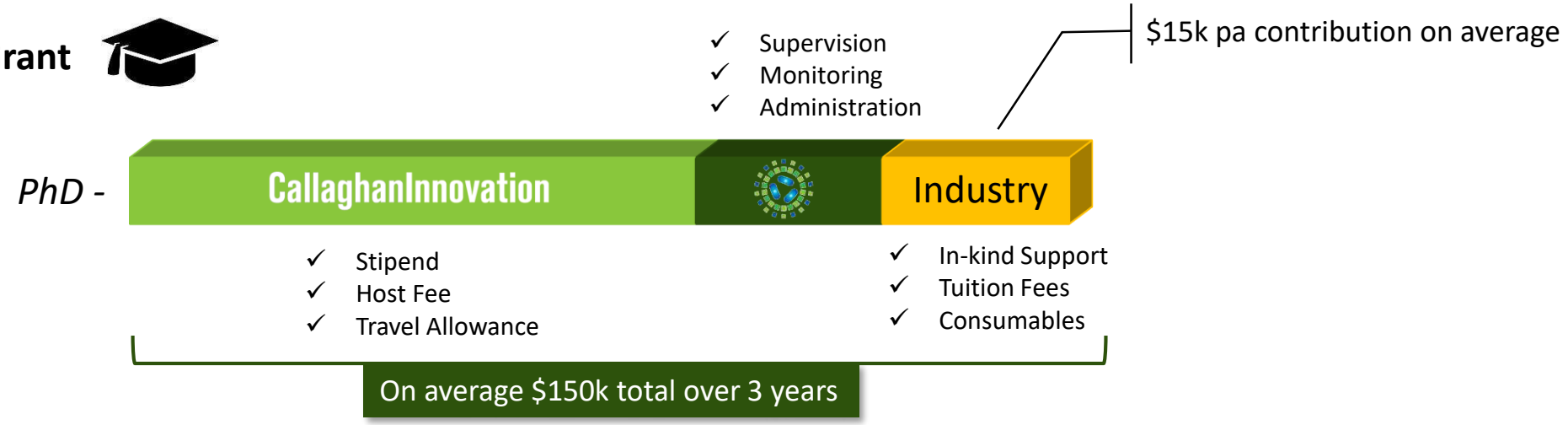
- IP, licenses and all project details agreed upon upfront

Industry Projects

➢ FUNDING MODELS

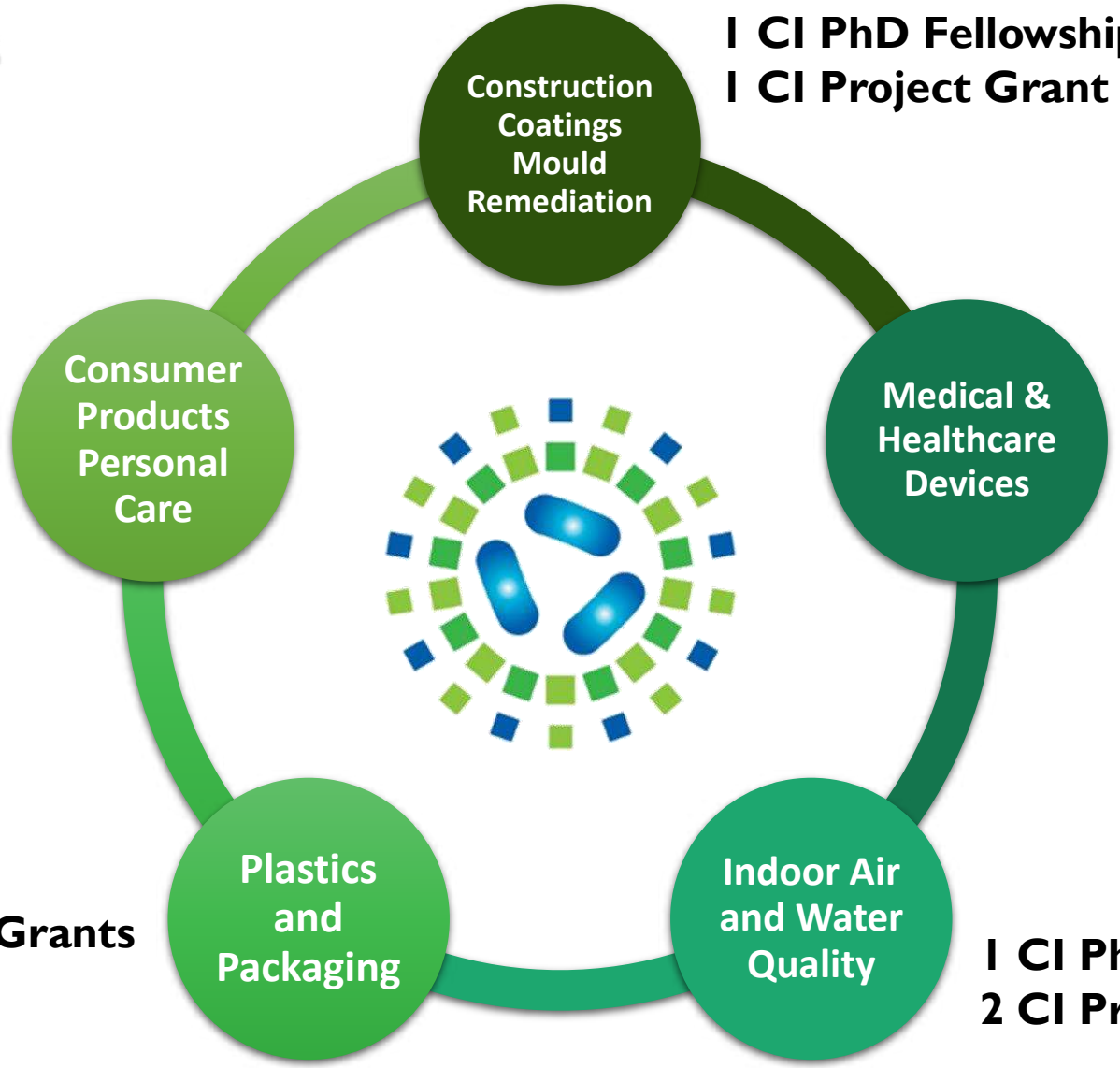
- **Getting Started Grant –** *receive up to $5k for a small scale project*

- **Student Grant**



- **Project Grant -** *receive 40% of your eligible R&D project costs*

Industry Projects



1 CI PhD Fellowship
1 CI Project Grant

1 CI PhD Fellowship
1 Research Project

1 CI PhD Fellowship
2 CI Project Grants

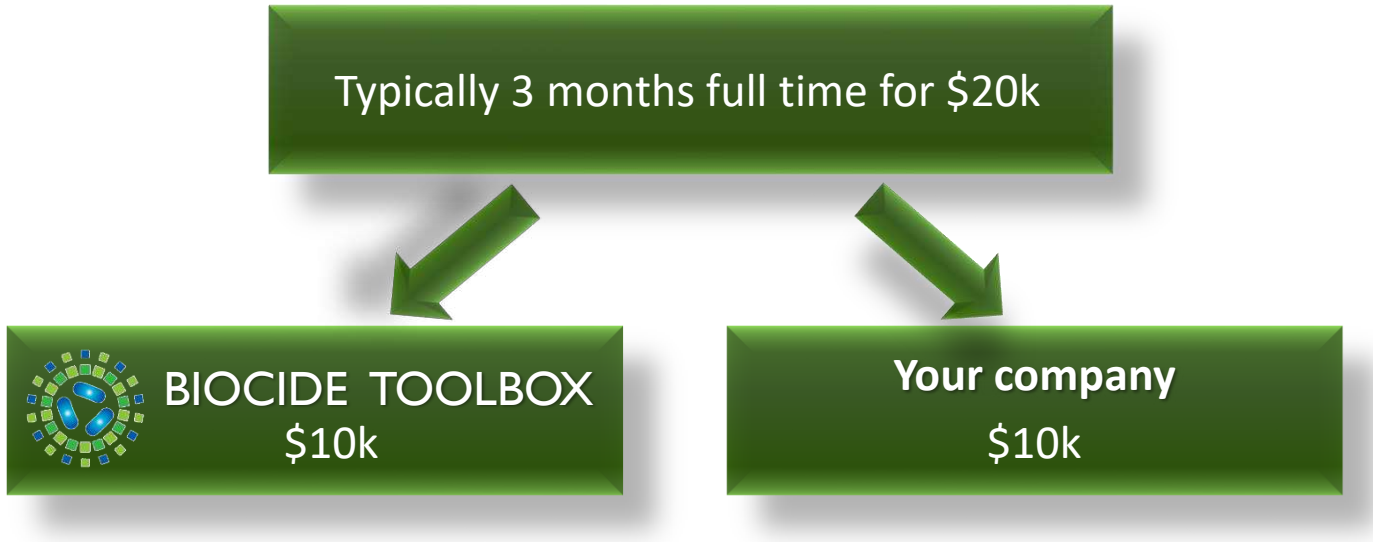
2 CI Project Grants

2 CI Project Grants

Industry Placements

- **Subsidised Product Manager in Industry Placement**

  Short term employment of PhD graduates with the relevant expertise



- **Further down the track** – core PhD students to spend 6 months in Industry
  - ✓ after they have handed their thesis
  - ✓ as part of their scholarship

Contact

Adeline Le Cocq
Project Manager | Commercialisation
a.lecocq@auckland.ac.nz
09 923 7657

Lou Gommans
Business Development Manager
chemistgom@gmail.com
021 250 4522

www.biocidetoolbox.com