



Science that solves water, land and environmental challenges

HOW WE DO IT

Interdisciplinary expertise

Our biotech specialists, water scientists, engineers and agronomists solve complex challenges.

Turning problems into opportunities

In partnership we co-develop solutions to bring environmental and economic success.

Delivering real value returns at speed

Big company innovation with personal service, meeting your goals on time and on budget.

60

Years of experience

45

Scientists and engineers

450

Client commissioned research reports delivered in the last 10 years

15%

Of our team bring executive commercial experience, ensuring science translates into market-ready impact

Your innovation and research partners for practical solutions

CONTACT

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Visit our website
for more information

Micro-factory textile and garment upcycling systems

From safe solvent extraction to fibre re-spinning

The challenge:

Clothing waste is a global problem, with up to 30% of garments manufactured never sold and post-consumer recycling rates remaining low. Textiles are also one of the most resource-intensive product categories, contributing significantly to raw material use, water consumption, greenhouse gas emissions and microplastic pollution.

The most difficult materials to recycle are complex, multi-source fabrics containing blends of natural and petrochemical fibres.

Our approach:

Lincoln Agritech has developed a novel, sustainable fibre-to-fibre conversion process that can separate and re-spin complex textile composites into their constituent parts creating a closed-loop textile recycling system.

This capability supports both:

- Distributed manufacturing models, with smart micro-factories located close to waste streams
- Centralised processing models, aggregating textile waste for large-scale recycling

Impact:

Our proprietary solvent chemistry and wet fibre spinning processes enable the recovery of high-value fibres from textile waste, supporting economically viable and environmentally sustainable fashion systems.

This capability builds on more than ten years' partnership with the Wool Research Organisation of New Zealand (WRONZ), where Lincoln Agritech helped transform low-value wool into high-value export products through the commercial spin-out Wool Source.

Why partner with us:

- Proven fibre separation and re-spinning capability
- Sustainable, closed loop and scalable processing pathways
- Flexible development models, from feasibility to pilot scale
- Deep experience bridging science and commercialisation

Partner with us lincolnagritech.co.nz

