

CIRCULARCONNECT
designing out plastic waste

consultant directory



3R group

why choose us?

3R uses a combination of expertise, science and creativity to deliver your sustainability goals. By working alongside and in collaboration with you, 3R achieves real results that you and your investors understand. Working with 3R will protect the long-term goals of your business by reducing your impact on the environment in a way that you can talk about.

We work in partnership with you, giving you access to a team of experts who have delivered major sustainability projects on time and on budget for businesses that experience challenges just like yours.

We use the circular economy and waste hierarchy as guiding principles. We have a proven project framework to take you through all the necessary steps – from illumination to innovation – it's our Sustainable Futures Accelerator. It will help you understand your options and empower you to make the decisions that work best for your business.

We have the vision and tenacity to turn your objectives into real results that your stakeholders and customers will recognise.

we specialise in...

Developing solutions to accelerate a circular economy

Sustainable packaging audits, analysis and advice
Product stewardship solutions (voluntary and regulated products)

Expertise in waste reduction, waste minimisation and material recovery

R&D framework to challenge assumptions, disrupt thinking and enable delivery of new ideas

Proven ability to engage stakeholders throughout the supply change

Real world, scalable solutions

Environmental Management Plans to ISO14001:2015

our skills are

- ✓ Circular economy solutions
- ✓ Product stewardship design and delivery
- ✓ Sustainability strategy development and implementation
- ✓ Stakeholder engagement
- ✓ Material recovery
- ✓ Lifecycle thinking
- ✓ Packaging – analysis, advice
- ✓ Waste assessments and audits
- ✓ Hazardous material collection and disposal
- ✓ Communications and marketing
- ✓ Behaviour change

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Automotive, Aviation & Aerospace
- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Food & Beverage
- ✓ Chemicals

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Trevor Tutt	Multi disciplinary team with qualifications ranging from food technology to marketing/communications	20+	trevor@3r.co.nz	021 932 505

blender

why choose us?

We are a full service firm, bringing together Strategy, Design & Engineering, with a 15 year track record of developing successful, multi-award winning new products and solutions.

We partner with our clients, integrating into their team, helping them to develop their own capability, processes and winning culture.

We care about Impact. We want to make a difference. We are focussed on delivering commercial success and solutions that have a positive impact on people and the planet

we specialise in...

We are product development specialists. Working at the intersection of Design, Technology, and Business. Helping companies bring to life exceptional new manufactured products that delight customers, make a positive impact and deliver great commercial outcomes.

Our specialist capabilities are:

- Design & Innovation Consulting
- Sustainable Design Consulting
- Design Strategy & Research
- Customer Experience Design & Branding
- Industrial Design
- Packaging Design
- Engineering
- Prototyping & Low Volume Production
- Manufacturing Support

our skills are

- ✓ New Product Development
- ✓ Industrial Design
- ✓ Mechanical Engineering
- ✓ Plastics technical
- ✓ Packaging Design
- ✓ Prototyping & Additive Manufacturing
- ✓ Design for manufacture and assembly (DFMA)
- ✓ Sustainability & Lifecycle thinking
- ✓ Circular Product Design & Strategy

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Electrical, Electronics, IT & Communications
- ✓ Furniture & Fixtures
- ✓ Industrial/Engineering Solutions
- ✓ Marine & Outdoor

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Compostables
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Greg Storey	BEng (Hons) Mechanical / MEngNZ Diploma in Design & Specification of Plastics	16+	greg@blender.net.nz	09 448 5899
Matt Bradley	BEng (Hons) Mechanical Diploma in Design & Specification of Plastics	6+	matt@blender.net.nz	09 448 5899
Oliver McDermott	BDes (Hons) Industrial Design / PDINZ	15+	ollie@blender.net.nz	09 448 5899
Evan Thomas	BDes (Hons) Industrial Design	8+	evan@blender.net.nz	09 448 5899
Ian Milligan	BDes - Industrial Design Diploma in Design & Specification of Plastics	7+	ian@blender.net.nz	09 448 5899

callaghan innovation

why choose us?

We have deep materials science and processing experts to help NZ companies reduce their carbon footprint, turn waste to value, and develop more environmentally sustainable products

We help NZ companies accelerate product development and improve product performance

Our goal is NZ business success - we are measured by the success of our customers

Track record - we work with hundreds of clients each year. 97% of customers said work was completed to a high standard

we specialise in...

Polymer and coating R&D
 Metals and ceramics R&D
 Material selection, analysis and testing
 Industry 4.0 technologies
 Robotics and automation
 Additive manufacturing

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Sustainability
- ✓ Plastics technical
- ✓ Circular design

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Automotive, Aviation & Aerospace
- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Electrical, Electronics, IT & Communications
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- ✓ Petroleum based plastics
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayers

contact name	training/qualifications	# yrs experience	@ email
Monique Parsler	National Diploma (Analytical Chemistry)	20	monique.parsler@callaghaninnovation.govt.nz

Circularity

why choose us?

As an impact driven organisation, we act on a deep-rooted belief that environmental impact can be designed out. Attempting this in reality for many businesses is often complex, under resourced and quite frankly sometimes heart-breaking. Rapidly changing regulation and increasing consumer expectations means it's hard to stay on top of and know where to start and what to plan for. It is also a system problem, so product solutions won't completely tackle plastic waste going into the environment. Simply put, that's why we are here.

Our proven approach is focused on activating circularity across your ecosystem using a design-thinking process to discover, define, design and deliver extraordinary outcomes for your business, your communities and the planet. This process

enables us to build your capability, maximise your engagement with stakeholders, minimise your risks and accelerate your progress towards the reimagining new solutions. Design thinking enables a process of testing and validating new solutions with minimal risk and maximum opportunity for success.

At the heart of our work is an innovation toolkit -Circular by design methods that unlock closed loop systems, design new products made from smart materials, create new systems and services to recover, reuse, remanufacture materials, explore new partnerships and technologies to solve the challenges of a linear approach to products/ packaging.

we specialise in...

Problem/discovery research and workshops to understand the problem/challenge/define the opportunity for circularity. This can include customer, supplier and stakeholder interviews/ research.

Circular Product, system, packaging design.

Project Management and development - prototyping, testing, researching and validating solutions across supply chains and systems.

Writing/designing marketing assets both internal and external to communicate new solutions/ processes/products with your audiences.

Fostering and connecting with local and global suppliers for new materials and products.

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Industrial design
- ✓ Circular design
- ✓ Service design - ie product stewardship +
- ✓ Implementing new packaging into organisations and systems
- ✓ Facilitating workshop discovery sessions to focus your efforts
- ✓ Customer and solution research

market segments we're known for...

- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Food & Beverage

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals

contact name	training/qualifications	# yrs experience	@ email
Louise Nash	Bachelors of Economics Masters in Law Masters in Technological Futures AIP Sustainable Packaging Course IDEO Certificate in Business Design	3 in Circular design 20+ in Brand/Product strategy	louise@circularity.co.nz
Samantha Walmsley-Bartlett	Enviromental Management & Botany (First Class Honours)	5	samantha@circularity.co.nz
Bree Asmus	Bachelor of Design - Industrial (First Class Honours)	3 in Circular design 10+ in Brand/Product strategy	bree@circularity.co.nz

Circular Innovations & Solutions Research Centre

why choose us?

The scope of our research centre covers all stages of a product's life cycle including waste prevention, waste minimisation, recycling, resource recovery, product stewardship, systems thinking, digitalisation, economics, marketing, management, education, and social aspects.

We are committed to generating high-quality research that is informed by industry and contributes to the improvement of practice in Manufacturing, Water & Waste Services, Agriculture & Food industry, Health care & Pharmaceutical sectors. Our mission is to develop cleaner, safer, and more energy-efficient processes for the development of high-value products from raw materials and waste.

we specialise in...

Waste management, reduction, reuse and recycling
 Wastewater treatment processes
 Chemical engineering
 Separation technologies
 Chemical and thermal processes in energy and combustion
 Food engineering
 Bioprocessing, bioproduction and bioproducts
 Catalysis and mechanisms of reactions

our skills are

- ✓ Circular economy strategy
- ✓ Sustainability
- ✓ Industrial design
- ✓ Circular design

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions
- ✓ Health Care
- ✓ Waste
- ✓ Pharmaceutical

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Multilayer

contact name

training/qualifications

yrs experience

@ email

Saeid Baroutian

PhD Engineering

12

s.baroutian@auckland.ac.nz

designally

why choose us?

We are experienced designers, researchers, and strategists who can help your team action circular change projects using an evidence-based approach.

We help businesses, organisations and brands understand how people engage with them. Applying insight that truly impacts products, services and experiences. We are human-centered designers at heart, and work alongside you as partners guiding your change journey. We strongly believe in the power of this approach to connect people to your purpose, with thoughtfully designed solutions.

This connection is key for successful behaviour change related initiatives. In particular, a deep understanding of user experience is needed to help move further up the waste hierarchy (rethink, reduce, redesign, reuse) and 'close the loop' at end-of-life.

we specialise in...

Design research:

Insights, user experience & behaviour change, quantitative & qualitative research.

Circular design strategy:

Discovery, development and implementation informed by life cycle thinking, reusable packaging & related service models.

Packaging design & branding.

Service/systems design.

Industrial design.

Project management.

Stakeholder engagement & workshop facilitation.

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Industrial design
- ✓ Circular design
- ✓ Creative Direction
- ✓ Workshop Facilitation

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Household & Consumer Products
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 5
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Metals
- ✓ Composites

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Jess Mitchell	Bachelor of Design with Honours (BDes (Hons), Industrial Post Graduate Diploma Teaching Secondary (GDipTchg(Secondary))	4	jess@designally.nz	027 406 6778
Kelly McClean	Bachelor of Design with Honours (BDes (Hons), Textiles Master of Design	7	kelly@designally.nz	021 512 598
Matt Mitchell	Bachelor of Design with Honours (BDes (Hons), Advertising	4	matt@designally.nz	027 378 7998

ella meisel

why choose us?

Having experience in product development engineering means I have a good understanding of the technical challenges you're facing and can help to find a solution that fits your specific needs. I'm passionate about working towards a truly circular economy and have knowledge of sustainable materials and design principles, as well as an understanding of the resource recovery sector both in NZ and internationally that can be applied to help you achieve your sustainability goals.

we specialise in...

The design of sustainable packaging and durable goods which consider both resource recovery at the end of life as well as circular and renewable inputs during production for a low emissions circular economy.

our skills are

- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Circular design
- ✓ Plastics technical
- ✓ Lifecycle thinking
- ✓ Mechanical Engineering

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Household & Consumer Products
- ✓ Entertainment & Gaming
- ✓ Electrical, Electronics, IT & Communications
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Ella Meisel	Bachelor of Engineering, Mechanical (First Class Hons) Diploma in Design & Specification of Plastics (DDSP) ISSP Sustainability Excellence Associate (SEA)	7 years experience in product development and ecodesign	meisel.ella@gmail.com	021 142 3477

exemplar

why choose us?

Experience - over 30 years in the packaging industries. Able to inextricably link packaging to packaging machinery. Senior management, operational and technical expertise. Independent and global networks.

we specialise in...

All forms of plastic packaging formats
 Packaging design
 Resin technologies
 Plastic manufacturing
 Integrating packaging on packing machines
 Project management
 Packaging audits
 Environmental & Sustainable packaging solutions
 Preparation of Business Cases

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Industrial design
- ✓ Plastics technical
- ✓ Circular design
- ✓ Packing machinery advice

market segments we're known for...

- ✓ Household & Consumer Products
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- | | | |
|-------------|----------------|--------------|
| ✓ Plastic 1 | ✓ Plastic 7 | ✓ Composites |
| ✓ Plastic 2 | ✓ Bioplastics | ✓ Flexibles |
| ✓ Plastic 4 | ✓ Compostables | ✓ Multilayer |
| ✓ Plastic 5 | ✓ Glass | |
| ✓ Plastic 6 | ✓ Metals | |

contact name	training/ qualifications	# yrs experience	@ email	📞 phone
Lawrence Olsen	BE (Mech) Diploma in Design and Specification of Plastics	30	lawrence@exemplarnz.co.nz	029 777 7877

go well

why choose us?

We have a background in compostable packaging and community scale hot composting.

We are subject matter experts on circular economy thinking and packaging for a circular economy.

We have experience advising on sustainability, the circular economy, and packaging solutions across multiple business and multiple industries.

We designed and trialled a product stewardship scheme for compostable "soft plastics" (see our website for the reports).

We are currently designing and trialling a take-back scheme for liquid paperboard packaging (aka tetrapak) with a client.

We provide Sustainability Manager services to multiple businesses.

we specialise in...

Developing sustainability strategies to help businesses become circular and regenerative.

Writing sustainability reports.

Providing Sustainability Manager services to ensure delivery of strategies and ongoing expert support / guidance.

Communicating sustainability.

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Plastics technical
- ✓ Circular design

market segments we're known for...

- ✓ Household & Consumer Products
- ✓ Furniture & Fixtures
- ✓ Food & Beverage

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Nick Morrison	Courses in Circular Design and Sustainable packaging in Circular Economy	3.5	nick@gowellconsulting.co.nz	027 777 3391

green business hq

why choose us?

Green Business HQ founder Carolyn Cox, has led plastics sector sustainability initiatives and best practice programmes and brings over 20 years of expertise in advising businesses on circular product and packaging solutions. Working across many sectors our clients range from small to big business and include Good Thing, Father Rabbit, The Blues, API Brands, Nature Baby, Petstock, Flash Dental, Mitre 10 New Zealand, and City Rail Link.

we specialise in...

Practical advice for New Zealand businesses. We specialise in helping businesses ensure their products and packaging can become part of the circular economy - for domestic or export markets. Conducting audits and assessments of current and proposed product and packaging designs across a broad range of product categories. We also produce business specific circular packaging guidelines for businesses including Mitre 10 New Zealand. Addressing material and colour selection, certification requirements, design specifications and labelling.

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Circular design
- ✓ Sustainable packaging design guidelines

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Entertainment & Gaming
- ✓ Electrical, Electronics, IT & Communications
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Carolyn Cox	Bachelor of Resource Studies Masters Resource and Environmental Planning	20+	carolyn@greenbusinesshq.com	027 341 0229

lauren schick

why choose us?

I have always been passionate about sustainability and the environment. I have studied and worked in these areas for over 15 years and have amassed a great amount of knowledge in that time. I am a very good communicator and ensure the information I provide is to a high standard and. I believe in dreaming big but taking small steps, and enjoy the process of helping a client come up with a strategy and then implementing it.

we specialise in...

Environmental management, Sustainability, ecolabelling, life cycles, research, auditing, climate change, gap analysis, certifications and strategy development

our skills are

- ✓ Circular economy strategy
- ✓ Aspects of or components of Packaging Design
- ✓ Sustainability
- ✓ Circular design
- ✓ Research and literature reviews

market segments we're known for...

- ✓ Agriculture
- ✓ Household & Consumer Products
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Textiles

materials experience...

- ✓ Fibre
- ✓ Compostables
- ✓ Broad experience with most materials

contact name	training/qualifications	# yrs experience	@ email	📞 phone
Lauren Schick	Masters in Science (physical oceanography and coastal hydrodynamics) Bachelor degree in Earth Science Certificate in Environmental Management Certified Environmental Practitioner	10 years experience in different components of the Circular sector	laurenpschick@gmail.com	021 036 3335

mad world

why choose us?

Mad World started in 2001 and was one of the first Sustainability Consultancies in New Zealand. We operate in New Zealand, Australia and Asia. Our clients include leading brands, local and national government departments, as well as industry associations.

Mad World has been supporting NZ businesses on their sustainability journey for 20 years.

we specialise in...

Extended Producer Responsibility and Packaging Product Stewardship

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Circular design
- ✓ GHG inventory

market segments we're known for...

- ✓ Household & Consumer Products
- ✓ Furniture & Fixtures
- ✓ Food & Beverage

materials experience...

- | | | |
|-------------|----------------|--------------|
| ✓ Plastic 1 | ✓ Plastic 6 | ✓ Glass |
| ✓ Plastic 2 | ✓ Plastic 7 | ✓ Metals |
| ✓ Plastic 3 | ✓ Fibre | ✓ Composites |
| ✓ Plastic 4 | ✓ Bioplastics | ✓ Flexibles |
| ✓ Plastic 5 | ✓ Compostables | ✓ Multilayer |

contact name	training/qualifications	# yrs experience	@ email	📞 phone
Lyn Mayes		20+	lynmayes@madworld.co.nz	021 471 261

made possible

why choose us?

We combine deep technical expertise (plastics, chemical, materials, control and mechanical engineering) with solid commercial and financial experience. As a team we have built companies, developed R&D and commercial strategy and the lead scale-up of engineering and processes for some of the most exciting success stories in NZ and abroad.

We have all the theory and models expected of MBA qualified advisors but differentiate ourselves through real-world engineering, science and commercial experience to ensure concepts become reality rather than fluffy post-it notes on a white-board.

'We' is Made Possible Limited (almost 100 years deep engineering, science and commercial experience directly employed), our NZ partner network (technical, product, industrial and packaging design), and our extensive offshore networks

we specialise in...

R&D and business model strategy through to product, technology and process development, validation and scale-up.

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Industrial design
- ✓ Plastics technical
- ✓ Circular design

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Electrical, Electronics, IT & Communications
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostable
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Mark Sorensen	Plastics NZCE and MBA Governance and business model design experience/qualifications	Four years experience since the 'circular economy' became a title, 10-15 years more broadly on at product, process and systems reengineering. 20+ years engineering and commercial advisory/leadership experience	mark@madepossible.co.nz	021 444 603
David Hassell	Chartered Chemical Engineer (BSc Hons)	30+ years process engineering		
Dennis Macalintal	BSc Chemical Engineering	20+ years chemistry and process engineering		

Note: Other partners as needed for projects

plastics centre of excellence

why choose us?

The Plastics Centre of Excellence (PCoE) and The Centre for Advanced Composite Materials (CACM) brings together expertise from engineering, science, business and medical faculties to undertake fundamental, applied and industrially focused research on synthetic and bio-based composite materials, manufacturing processes, design, analysis, and experimental characterisation.

Our activities are broadly split between material development, manufacturing processes and structural performance. We focus on aspects of Polymer Modification, Polymer Blends as well as Polymer Processing within the context of traditional and bio-based materials. We have a strong focus on promoting the transition to a circular economy

for plastics and, as such, focusses on aspects of material performance of recycled materials and products. The centres are well equipped with a range of polymer processing equipment as well as state-of-the-art analytical equipment for mechanical, thermal and flammability testing.

we specialise in...

Novel Materials:

Biopolymers and biocomposites
Biodegradability / Sustainability
Flammability and fire performance
Micro/Nano fibrillar composites

Manufacturing Processes:

Process development, simulation, control
Thermoset and Thermoplastic processing
RTM and Resin Infusion, Prepreg consolidation, Forming, Rotational moulding
Injection moulding, extrusion and reactive compounding

Structures and Applications:

Product design and application
Failure prediction joints, stress concentrations
Performance of complex structures

our skills are

- ✓ Product design
- ✓ Sustainability
- ✓ Plastics technical
- ✓ Circular design

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Automotive, Aviation & Aerospace
- ✓ Building & Construction
- ✓ Furniture & Fixtures
- ✓ Industrial/Engineering Solutions
- ✓ Marine

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostable
- ✓ Composites

contact name	training/qualifications	# yrs experience	@ email
Johan Verbeek	PhD Engineering	22 years	johan.verbeek@auckland.ac.nz
Simon Bickerton	PhD Engineering	23 years	s.bickerton@auckland.ac.nz

Precycle

why choose us?

Precycle NZ is passionate about supporting businesses to find innovative solutions to managing their waste and sustainability. Precycle take a hands-on approach to work, meaning solutions are fit-for purpose and have real science backed.

Boasting a team with a diverse background in chemical bioprocess engineering, mechatronics engineering, food and beverage manufacturing, horticulture, alternative proteins, construction and demolition, healthcare, and non-profit environmental work, gives Precycle a solid foundation to understand and tackle problems. The team also has experience working across Australasia and Southeast Asia, with strong connections in the regions.

Precycle NZ was the winner of Innovate Manawatu 2022 and has also been nominated for various awards in business sustainability.

we specialise in...

Waste Assessments and Audits

- Understanding and reducing waste to landfill.
- Creating practical solutions based on science and engineering principles.
- End-of-life options for materials.
- Complex waste systems in large organisations.
- Manufacturing and processing waste.
- Measuring and reducing carbon footprints of waste management systems.
- Balancing financial, environmental, and social benefits.

Event Waste Management

- Event waste minimisation and reduction of recycling contamination.

our skills are...

- ✓ Circular economy and lifecycle thinking.
- ✓ Chemical and bioprocess engineering.
- ✓ Waste assessments and audits.
- ✓ Material recovery and Waste consolidation.
- ✓ Manufacturing optimisation.
- ✓ Supporting behaviour change.
- ✓ Recycling technologies and innovation.

market segments we're known for...

- ✓ Manufacturing
- ✓ Event Waste
- ✓ Agriculture & Horticulture
- ✓ Construction and Demolition
- ✓ Healthcare
- ✓ Food & Beverage
- ✓ School and Universities
- ✓ Recycling

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Metals
- ✓ Compostables
- ✓ Composites
- ✓ C&D Materials
- ✓ Multilayer
- ✓ Food Processing Byproducts

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Nelson	Bachelor of Engineering, Chemical & Bioprocess (First Class Hons) Diploma of Applied Science Certificate 3 in Horticulture Certificate 3 in Health Services	Five years experience	Nelson@precycle.co.nz	021 084 11382

Pro-Dev

why choose us?

Pro-Dev distinguishes itself from normal design studios by developing products not just from concept to complete design, but also supplying a full manufacturing service for the finished article. Pro-Dev has its own manufacturing and supply network, both in NZ and offshore. We have full time employees on the ground in China, ensuring the client has someone with their best interests in mind implementing their project. We take pride in our ability to leverage the transparency with our factories to produce products both sustainably, and with high levels of quality to ensure they last the distance.

The business is run from our purpose built office in Wellington, and we provide guidance and mentoring to our clients to allow them to commercialise their ideas. Our team includes members with a diverse range of skills, from industrial design through to engineering, tooling and factory floor knowledge.

we specialise in...

Our speciality is a concept to container service. We provide physical product design and manufacturing, helping clients transform their vision into packaged, finished products sitting on store shelves. We utilise our vast experience in design, engineering, project management, tooling, compliance, manufacturing, packaging and supply chain management to make the client's journey as seamless as it could possibly be.

Our aim is sustainable production, with a focus on circular economy, long life, easy assembly/ disassembly, and reusable/recyclable materials. We believe in the right to repair ethos, and design our products accordingly.

Exploring new processes and capabilities is one of our strengths, and we enjoy the challenge of partnering with businesses that are research focussed.

our skills are

- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Industrial design
- ✓ Plastics technical
- ✓ Circular design
- ✓ Design for manufacturing
- ✓ Manufacturing
- ✓ Compliance
- ✓ Right to repair
- ✓ Logistics
- ✓ Engineering

market segments we're known for...

- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Electrical, Electronics, IT & Communications
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions
- ✓ Disability solutions
- ✓ Outdoor and sports

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Sam Kumar Sundarraj	Master Of Engineering - Mechanical Engineering IC Agile Certified Professional Professional Scrum Master Certification	15+	sam@pro-dev.co.nz	021 301 412
Andrew Mawson	In-service: Industrial Design, Design Engineering Advanced Trade Certificate Toolmaking Diploma in Design & Specification of Plastics. (DSSP - Plastics NZ)	20+	andrew@pro-dev.co.nz	
Wilson Murdoch	Engineering Certificates in Mechanical Engineering	50+	wilson@pro-dev.co.nz	
Taylor Wang	Bachelor's Degree in Mechanical Design and Manufacturing	10+	taylor@pro-dev.co.nz	

sbn

why choose us?

SBN Advisory offer access to a multi-disciplinary team with diverse experience. We combine a 'whole of system' lens with practical application well suited to organisations at the start of their transition towards a low carbon circular economy operation.

we specialise in...

Strategy and implementation on climate action, designing out waste and regenerating nature.

our skills are

- ✓ Circular economy strategy
- ✓ Sustainability
- ✓ Circular design
- ✓ Action on climate

market segments we're known for...

- ✓ Non sector specific

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	📞 phone
James Griffin	Multi disciplinary Team with qualifications ranging from environmental science to communications	SBN has provided sustainability advice to business since 2003	james@sustainable.org.nz	021 686 155

scion

why choose us?

"Scion, is one of New Zealand's Crown Research Institutes. Together with NZ and international research partners, we have developed innovative, sustainable bioproducts for the plastics industry for almost two decades.

We take a circular bioeconomy approach, focussing on converting renewable biological resources into bio-based products (including bioenergy). We add value to side and waste streams from the forest, agriculture, and other sectors as feedstocks for bio-products, packaging, and energy to displace petroleum-based products and lower NZ's carbon footprint.

We are an impact organisation and measure our success by how New Zealand transitions to a circular (bio)economy."

we specialise in...

Biomaterials including Biopolymers, Fibre and Composites:

- Bioplastic & composite formulation
- Extrusion & extrusion modelling
- Injection moulding, additive manufacturing
- DIN CERTCO accredited biodegradation test facility
- Biotechnology including fermentation and PHA development

Packaging materials and testing:

- Fibre/cellulose packaging development
- Development of new fibre materials
- Plastics, Paper and composite analysis and testing
- Microplastics analysis

Energy:

- Bioenergy for process heat
- NZ Biofuel options
- Pyrolysis and torrefaction

our skills are

- ✓ Circular economy strategy
- ✓ Sustainability
- ✓ Plastics technical
- ✓ Bioproduct development
- ✓ Additive manufacturing
- ✓ Bioenergy
- ✓ Food contact testing
- ✓ Waste utilisation
- ✓ Materials compliance testing (VOC, extractables and leachables, repulpability, food contact)

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Building & Construction
- ✓ Industrial/Engineering Solutions
- ✓ Other

materials experience...

- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Composites
- ✓ Multilayer
- ✓ Other

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Marc Gaugler	Master Polymer Processing Bachelor Chemistry and Marketing	16	marc.gaugler@scionresearch.com	07 343 5393
Kate Parker	PhD Chemistry	19	kate.parker@scionresearch.com	07 343 5671

square one

why choose us?

- Square One can help you get into more sustainable packaging:
 - > Review your current packaging.
 - > Help strategise a project timeline & deliverables for launch.
 - > Weigh up new packaging material options.
 - > Obtain new packaging samples & quotes from suppliers.
 - > Suggestions to improve design to optimise space/filling/packing/end-of-life stream acceptance.
 - > Ensure your packaging is functional so there is less chance of your product getting damaged/spoiling.
 - > Assist in supplier transitions.
 - > Can be available for production qualification trials and press-pass approvals.
 - > Find a way of closing the loop for difficult-to-recycle items.
- Complete project facilitation or small bursts of guidance.
- Effective communication with key stakeholders.
- Have had nearly 20yrs of packaging-related experience from working for trade organisations (including PlasticsNZ & WasteMINZ), product manufacturing, packaging manufacturing, and 6yrs of consulting for a plethora of companies, from start-ups through to well-known household brands.
- In tune with latest sustainable packaging movements on a macro level, and well connected to ask the right people in industry, to ensure recommendations are suitable in the journey to minimise waste.
- Can provide training sessions/workshops/webinars to help educate your organisation on the big picture of sustainable packaging in Aotearoa, NZ.

we specialise in...

- Packaging audits
- Sustainable packaging strategies
- Procurement assistance
- Freelance Packaging Technologist resource
- Training
- Education sessions to individuals/business teams/larger audiences
- Closing the loop with materials at end of their use (post-industrial/post-consumer) - connecting them into valuable end market streams

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Circular design
- ✓ NPD project management
- ✓ Infrastructure awareness

market segments we're known for...

- ✓ Household & Consumer Products
- ✓ Electrical, Electronics, IT & Communications
- ✓ Food & Beverage

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 7
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Nikki Withington	Bachelor Materials and Process Engineering Essentials of Sustainable Packaging Effective Marketing Strategies	6 (nearly 20 across multi-disciplinary industry & manufacturing roles)	nikki@sq1.nz	021 830 201

tadpole

why choose us?

Our team at Tadpole has been on the exact sustainability journey that our clients are on. Our job is to help you navigate your way through it. We know what the challenges will be (external and internal), and we have a team that can remove the complexity and streamline the process of transforming your products and business to be more sustainable.

We understand people and what motivates them, and we blend expert knowledge and business acumen.

We're responsive and our clients tell us we are easy to work with. We use practical language, not corporate jargon and buzz words.

market segments we're known for...

- ✔ Agriculture & Animal Health
- ✔ Building & Construction
- ✔ Household & Consumer Products
- ✔ Food & Beverage
- ✔ Industrial/Engineering Solutions
- ✔ Freight & distribution
- ✔ Healthcare
- ✔ Tourism

we specialise in...

- Sustainability education & training
- Stakeholder engagement
- Materiality assessments
- Packaging audits
- Carbon foot printing
- Carbon measurement and emissions reduction strategies (product and org level)
- Strategy & framework development
- Solution roadmaps
- Sustainability reporting
- Story telling & communication programmes

our skills are

- ✔ Circular economy strategy
- ✔ Product design
- ✔ Packaging design
- ✔ Sustainability
- ✔ Circular design
- ✔ Carbon foot printing
- ✔ Lifecycle analysis
- ✔ Stakeholder engagement
- ✔ Sustainability strategy development
- ✔ Sustainability reporting
- ✔ Packaging audits

materials experience...

- ✔ Plastic 1
- ✔ Plastic 2
- ✔ Plastic 4
- ✔ Plastic 5
- ✔ Plastic 6
- ✔ Plastic 7
- ✔ Fibre
- ✔ Bioplastics
- ✔ Compostables
- ✔ Flexibles

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Allan Birch	BSc - Chemistry + Dip Business Marketing	>15	allan@tadpole.co.nz	021 930 992
Wymond Symes	MSc - Biochemistry	15	wymond@tadpole.co.nz	027 560 8776
Claire Sanders	Bachelor of Business (Majors in Marketing & Management)	13	claire@tadpole.co.nz	021 110 6560
Kimberly Robertson	BSc- Zoology/Ecology, Masters of Forestry Science	20	kimberly@tadpole.co.nz	027 220 4417
Este Burnett	BSc - Physiology/Genetics, PostGraduate Diploma Business	5	este@tadpole.co.nz	021 706 911

thinkstep-anz

why choose us?

thinkstep-anz supports organisations to succeed sustainably.

Our team includes internationally recognised thought leaders in circular economy and life cycle assessment who have partnered with many leading New Zealand and Australian businesses enabling them achieve their sustainability ambitions.

We have an in depth knowledge of materials and manufacturing processes and have access to world-leading environmental data on the common materials, chemicals, energy mixes, and transportation that occur in your supply chain.

Our tools and services cover the full spectrum of sustainability. From product life cycle assessment to corporate footprinting,

corporate social responsibility strategy to sustainability reporting - we cover all aspects of sustainability.

Alongside solution delivery we grow your sustainability expertise and capacity, putting you in the drivers seat of your sustainability journey.

We walk the talk on sustainability:

- Our green house gas targets have been approved by the science based targets initiative
- We're part of the Climate Leaders Coalition
- We're Zero carbon certified
- We're a certified B-Corp
- Committed to all 17 UN Sustainable Development Goals

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Circular design
- ✓ Life Cycle Assessment (LCA)
- ✓ Circular Economy Metrics
- ✓ Cradle to Cradle (C2C) certification
- ✓ Carbon Footprinting
- ✓ Carbon reduction strategy
- ✓ Supply chain strategy
- ✓ Stakeholder engagement
- ✓ Product Stewardship
- ✓ Plain English communication
- ✓ Infographics

market segments we're known for...

- ✓ Agriculture & Animal Health
- ✓ Automotive, Aviation & Aerospace
- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Entertainment & Gaming
- ✓ Electrical, Electronics, IT & Communications
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions
- ✓ Packaging
- ✓ Energy
- ✓ Logistics
- ✓ Professional Services

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Fibre
- ✓ Bioplastics
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer
- ✓ Coatings
- ✓ Adhesives

we specialise in...

- Corporate and product carbon footprinting assessments
- Circular Economy Metrics (Material Circularity Indicator)
- Circular Supply-chains
- Comparative environmental impact assessments
- Competitive Landscape Analysis
- Cradle to Cradle (C2C) certification
- Custom Decision Tools (inc. packaging footprint calculators)
- Environmental Product Declarations (EPD)
- Hazardous chemicals
- Life Cycle Assessment (LCA)
- Materiality Assessments
- Recyclability assessments
- Responsible procurement
- Strategy Development
- Training & orientation workshops
- Packaging audits
- Climate Active certification
- Plain English communication
- Infographics
- B-Corp certification

contact name	training/qualifications	# yrs experience	📧 email	📞 phone
Barbara Nebel	PhD in Life Cycle Assessment, Certified LCA Practitioner	20+	barbara.nebel@thinkstep-anz.com	04 889 2520
Jim Goddin	PhD in Materials Engineering, Chartered Engineer, Chartered Environmentalist, Fellow - Institute of Materials, Minerals & Mining	10+	jim.goddin@thinkstep-anz.com	
Jeff Vickers	PhD in Engineering, Certified LCA Practitioner	10+	jeff.vickers@thinkstep-anz.com	
Emily Townsend	MSc in Chemistry, Certified LCA Practitioner	10+	emily.townsend@thinkstep-anz.com	
Caroline Nordijk	Masters in product design	10+	caroline.nordijk@thinkstep-anz.com	
Sally-Anne Kasner	MA in Environmental & Geographical Science	15+	sallyanne.kasner@thinkstep-anz.com	
Kate Thompson	BCom, LLB, BA	15+	kate.thompson@thinkstep-anz.com	
Katharina Bauch	MSc in Business Administration and Management, Certified LCA Practitioner	10+	katharina.bauch@thinkstep-anz.com	
Gaya Gamage	PhD in Sustainability, LCA and Risk Assessment; Certified LCA Practitioner	10+	gayathri.gamage@thinkstep-anz.com	

Tim Moor

why choose us?

We work in collaboration with you to create reports that assist in decision making for fund raising, technology feasibility and due diligence, market identification and validation, plant site and operations evaluation covering new innovations and materials processing.

we specialise in...

- ISCC PLUS Advanced materials
- Circular economy related technology innovations
- Circular economy polymer processing
- Evaluating technology & market opportunities

our skills are

- ✓ Design thinking and process knowledge
- ✓ Product design and polymer production knowledge
- ✓ Identifying new intellectual property (IP)
- ✓ Evaluating technology
- ✓ Project planning & management
- ✓ Compliance/ certification

market segments we're known for...

- ✓ Product & Packaging design
- ✓ Technical feasibility evaluation
- ✓ Advanced recycling
- ✓ Wearables
- ✓ Circular economy
- ✓ Utilities
- ✓ Food & beverage
- ✓ Aviation and Aerospace
- ✓ Defence

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Compostable/Biodegradables

#

contact name	training/qualifications	yrs experience	@ email
Tim Moor	MA, BA(HONS) Design for Industry	23 years	tim.moor.photo@gmail.com

totally wrapt

why choose us?

We have a broad range of experience across many product formats and production techniques allowing out-side-the-box thinking.

We specialise in helping our clients find suppliers and fast tracking a great working relationship and solution to carry forward.

After many years working in product development we are able to mentor people through the process from ideation through to supermarket access.

we specialise in...

Problem solving and matching products with exciting packaging solutions.

our skills are

- ✓ Circular economy strategy
- ✓ Product design
- ✓ Packaging design
- ✓ Sustainability
- ✓ Industrial design
- ✓ Plastics technical
- ✓ Packaging process
- ✓ Mentoring

market segments we're known for...

- ✓ Household & Consumer Products
- ✓ Food & Beverage

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 5
- ✓ Fibre
- ✓ Compostables
- ✓ Glass
- ✓ Metals
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	📞 phone
Sarah Yanez	BSC Food Science Post Grad Dip Packaging IoPP Certified Packaging Professional	15 years packaging experience	sarah@totallywrapt.co.nz	021 782 145

wilkinson environmental

why choose us?

We can help you navigate the complex issues involved in improving the circularity of plastic products and packaging.

You will work with Simon Wilkinson, who has over 15 years of experience working with the plastics industry, and over 25 years working with the recycling and waste sector, both overseas and in New Zealand. This deep understanding of both industries means we can guide you towards real and effective circular solutions for plastic, not just green marketing.

We have worked with some of New Zealand's largest companies to deliver real outcomes, such as KiwiRail, Fulton Hogan, Fletcher Construction, Genesis Energy and NZ Post.

we specialise in...

Working with businesses to improve the environmental performance of their products and processes

our skills are

- ✓ Circular economy strategy
- ✓ Sustainability
- ✓ Plastics technical
- ✓ Circular design
- ✓ Environmental audit

market segments we're known for...

- ✓ Building & Construction
- ✓ Household & Consumer Products
- ✓ Electrical, Electronics, IT & Communications
- ✓ Furniture & Fixtures
- ✓ Food & Beverage
- ✓ Industrial/Engineering Solutions

materials experience...

- ✓ Plastic 1
- ✓ Plastic 2
- ✓ Plastic 3
- ✓ Plastic 4
- ✓ Plastic 5
- ✓ Plastic 6
- ✓ Plastic 7
- ✓ Bioplastics
- ✓ Compostables
- ✓ Composites
- ✓ Flexibles
- ✓ Multilayer

contact name	training/qualifications	# yrs experience	@ email	☎ phone
Simon Wilkinson	BSC (Hons) Environmental Science MSC (research)	17	simon@wenz.co.nz	021 944 992 / 09 948 2597