

# Title 72pt

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DATE:

PREPARED BY:





## Beth Mason – President & CEO

In 2017, Dr. Mason was appointed CEO of the Verschuren Centre. Her forward-thinking mindset helps connect large industry and community partners to develop and demonstrate innovative clean solutions. Beth's background brings a mix of industry, research and business approaches to problem-solving from many sectors, private business and government. She is committed to enabling our clients' success by ensuring our core business activities and growth plans align with our clients' needs.





## Joe Canning – VP, Operations

Joe is a seasoned business leader with over 30 years of experience in operations management. After serving in all three branches and four commands of the Canadian Armed Forces, Joe began his civilian life with an entrepreneurial flair by starting his own electronics outlet. He continued this spirit by creating a business consulting company, where he worked with manufacturing organizations throughout Canada and the US. Joe's experience in business development, sales, marketing, quality management and production has helped him work with international organizations like Hunter Douglas, Canada Case, GeoTivity, and Beacon Power. He has proven expertise in optimizing startup and technical operations, making him a valuable addition to the Verschuren Centre team.





## Megan Hiscock – Manager, People Operations

Megan is the Manager of People Operations at the Verschuren Centre, where she plays a pivotal role in overseeing both the operational and human resources facets of the organization. With a robust educational background in the sciences and education, complemented by 15 years of professional management experience in operations, Megan is a vital asset to the team. Her expertise extends to developing and enhancing the Centre's operational procedures and human resources strategies. Renowned for her exceptional relationship-building skills, Megan is committed to leveraging her comprehensive knowledge and experience to foster a supportive and efficient environment for the entire staff & clients at the Verschuren Centre.





## Lindsay Burns – Manager, Climate Change Solutions

Lindsay is the Manager of the Climate Change Solutions team at the Verschuren Centre. Lindsay leads the materials and energy groups to advance the scaling and deployment of leading-edge climate change innovations. She makes her mark by pairing her passion for our environment with her background in impactful energy communications, government advocacy and stakeholder engagement. Lindsay is a Project Manager by practice, who works collaboratively with industry, scale up companies and academia to advance emissions reduction initiatives.





## Kyle Burton – Client Manager

Kyle Burton is the Client Manager at the Verschuren Centre & plays a pivotal role in uniting our technical teams with clients to propel sustainable innovation projects. With a rich background as a clean tech entrepreneur and startup founder, coupled with his experience in both government and the private sector, Kyle brings a unique blend of expertise to the table. His extensive sales and marketing skills, particularly in clean and ocean technologies within SMEs and scale-ups, enable him to effectively drive client engagements and foster partnerships. Kyle's approach is deeply rooted in a passion for sustainability, leveraging his diverse experiences to advance the Centre's mission in developing and deploying environmentally responsible solutions.





## Madison Brennan – Client Engagement Representative

Madison serves as the Client Engagement Representative within the Climate Change Solutions team at the Verschuren Centre. She specializes in fostering client engagement and cultivating partnerships to drive the mission of advancing clean technology adoption. With a background in marketing, communications and customer service, Madison plays a pivotal role in easing the collaboration between scale-up companies, end-users, and ecosystem partners. Her focus on business development is instrumental in unlocking opportunities that accelerate the deployment of sustainable solutions. Madison is deeply passionate about decarbonization and is dedicated to facilitating meaningful connections to propel emissions reduction initiatives forward.





## Shania Boucher – Financial Controller

Shania serves as the Financial Controller at the Verschuren Centre. She graduated from Cape Breton University, where she earned a Bachelor of Business Administration with a Major in Accounting and additional Concentrations in Law and Business Internship. In 2020, she successfully completed the CPA Canada Professional Education Program. Her professional background encompasses a diverse range of experience in both public and private accounting sectors, including healthcare and commercial as well as residential contracting industries.





## Pearl Passanha – Bio Manufacturing & Bio Polymer Sr. Scientist

Dr. Passanha specializes in microbial fermentation and polyhydroxyalkanoates. Her main research interest includes bio-fermentation processes and optimizations, bioremediation, microbiology, and environmental biotechnology. By utilizing her expertise, she can provide our clients with technical guidance to promptly meet key milestones.





## Subin Rajendran – Bio Marine Sr. Scientist

Dr. Rajendran specializes in biomolecule extraction, separation and characterization, particularly with complex marine substrates. Having over eight years of R&D experience enables him to improve his clients' workflows by incorporating scalable separation approaches and analytical characterization procedures for quality control. He enjoys contributing to the product development of a wide range of clients, from seafood processors to alternative protein companies.





## Sherin Jose – Bio Agriculture Sr. Scientist

Dr. Jose is a passionate plant biologist, focused on integrating science and technology into sustainable agricultural innovations. With over 10 years of research and development experience, she has built a diverse skillset in plant biology, including molecular biology, physiology, pathology, marker-assisted selection, and gene expression studies. Dr. Jose applies her knowledge to find solutions to her clients' challenges in developing sustainable agricultural products.





## Roger Gumbau-Brisa – Materials Sr. Scientist

Dr. Gumbau-Brisa has a passion for tackling advanced material synthesis and characterization challenges. His research background includes organic electrical conductors, molecular magnetic materials, and metal-chelating polymers with antimicrobial properties. Dr. Gumbau-Brisa utilizes his technical and laboratory expertise to provide analytical testing and process development recommendations to ensure clients get a deeper understand of their technology.





## Dean Chalmers – Program Manager, Energy Systems

Dean has a background in mechanical engineering and has received his PMP certification. After 20 years of working on international multi-discipline astronomical technology projects, the environmental impacts facing our planet motivated him to join the VC to apply his expertise and knowledge to support our clients' energy transition projects.





## Edward Cross – Lead Bio Polymer Scientist

Edward received his M.Sc. in Chemistry at University of Prince Edward Island with a focus on polymer chemistry, microbial polymer production, and organometallic chemistry. Edward has been an integral part of the Biopolymer program at the VC since 2017 and has developed research portfolios with a variety conventional and biodegradable plastics. Edward utilizes his experience to assist clients with setting research priorities, prototyping, and technology validation to reach their goals for product performance and scale-up





## Aleem Khan – Finance Manager

Aleem is the Manager of Finance for the Verschuren Centre. He is a seasoned Chartered Professional Accountant (CPA) with an extensive background in finance, specializing in Treasury, Controllershship, and Financial Planning & Analysis. Over the course of 15 years, Aleem has garnered valuable experience while contributing his expertise to renowned organizations like General Electric, Royal Bank of Canada (RBC), and Bank of Montreal (BMO). He offered strategic counsel, delivered value-added insights, and conducted comprehensive business performance analyses for Senior Management. His contributions were instrumental in shaping actionable management information aimed at generating stakeholder value. Aleem's history exemplifies his proficiency in providing astute financial guidance, delivering comprehensive analyses, and spearheading critical financial processes across multifaceted organizations within the finance industry.





## Jeff Delaney – Bio Manufacturing Supervisor

Jeff possesses nearly a decade of hands-on experience in the refining, gas processing, power generation, and petrochemical industries throughout North America. With a bachelor's degree in engineering technology, Jeff has refined his technical expertise and demonstrated proficiency in overseeing the Pilot scale biomanufacturing operations since 2021. Leading a dedicated team of process operators, Jeff ensures seamless operations and cultivates an environment of excellence. As a collaborative professional, he closely engages with clients, utilizing his extensive experience to enhance technology and facilitate the smooth transition from lab-scale experiments to full-scale production. His role involves translating insights gained in laboratory settings into practical applications for larger-scale operations.





## Sindy Dove – Project Supervisor

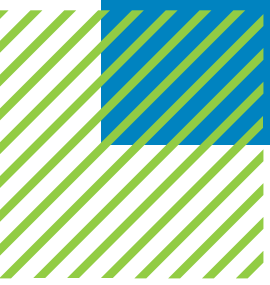
Sindy Dove is a distinguished expert in the field of molecular biology, with a specific focus on DNA extraction analysis. Her primary research interests revolve around oyster farming and algae cultivation. Leveraging her expertise, Sindy offers valuable insights and assistance in areas such as DNA extraction and PCR analysis, large-scale algae production, and the establishment of oyster hatcheries.





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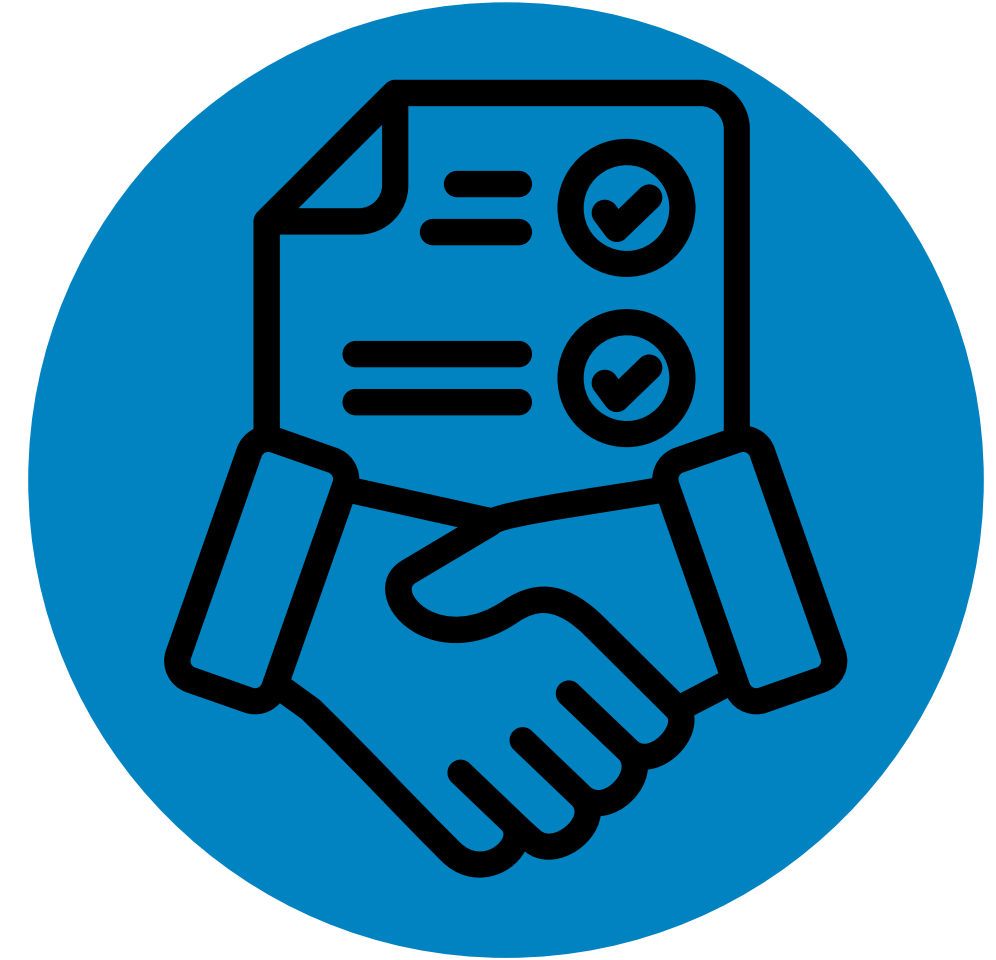




# Technical Project Lead

## Expectations & Responsibilities

- Act as a technical rep to help organize & maintain good relations with clients.
- Work closely with the Supervisor to ensure proper communication & follow through.
- Plan & execute workplans with the Supervisor (Pull in members of the Client Resource Group as needed).
- Ensure proper intake & all materials are available for the workplan/project.
- Help schedule runs etc.
- Develop & deliver results alongside Supervisor & Client Manager.
- Communicate any issues to the Supervisor.
- Update Monday.com for planning & completed tasks.





# Brand Guidelines



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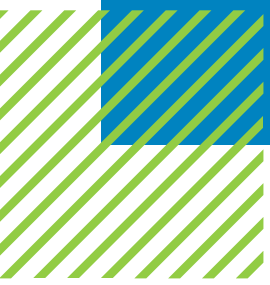
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The **Verschuren Centre (VC)** for Sustainability in Energy and the Environment is an independent clean technology development and deployment facility. We offer client-tailored services to support companies in developing sustainable solutions that meet industry needs.

By working with our highly qualified team and cutting edge shared-use facility, Small to Medium Sized Enterprises (SMEs) can **advance their IP to commercial-scale** while connecting with our network of partners locally, nationally and globally.

The VC inspires a collaborative shared goal of accelerating the **transition to a green and circular economy**, matching technology to application and ultimately meeting net-zero targets in an efficient manner.

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Our shared-use facility provides the technical capacity support for a continuous stream of SME users to accelerate their path to market and preserve capital for future investment.

**We operate a 1000L fermentation pilot plant with end-to-end downstream processing.**

Our Facility Characteristics Include:

- Biosafety Level-1 Lab
- Biosafety Level-2 Lab
- Fully Equipped Analytical Suite
- **Pilot Plant Facility** with scale up to 1000L with downstream processing
- **Marine Extraction Facility** with scale up to 6000L with downstream processing
- **Plant Growth Room** controlled environment for agricultural trials
- **Pilot Greenhouse** 30'x60' with 900 sqft of automatic drip irrigation





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## Industry Transformation Cluster



Bio Marine

Bio Agriculture

Bio Polymers

Bio Manufacturing

## Net-Zero Approaches Cluster



Energy Systems

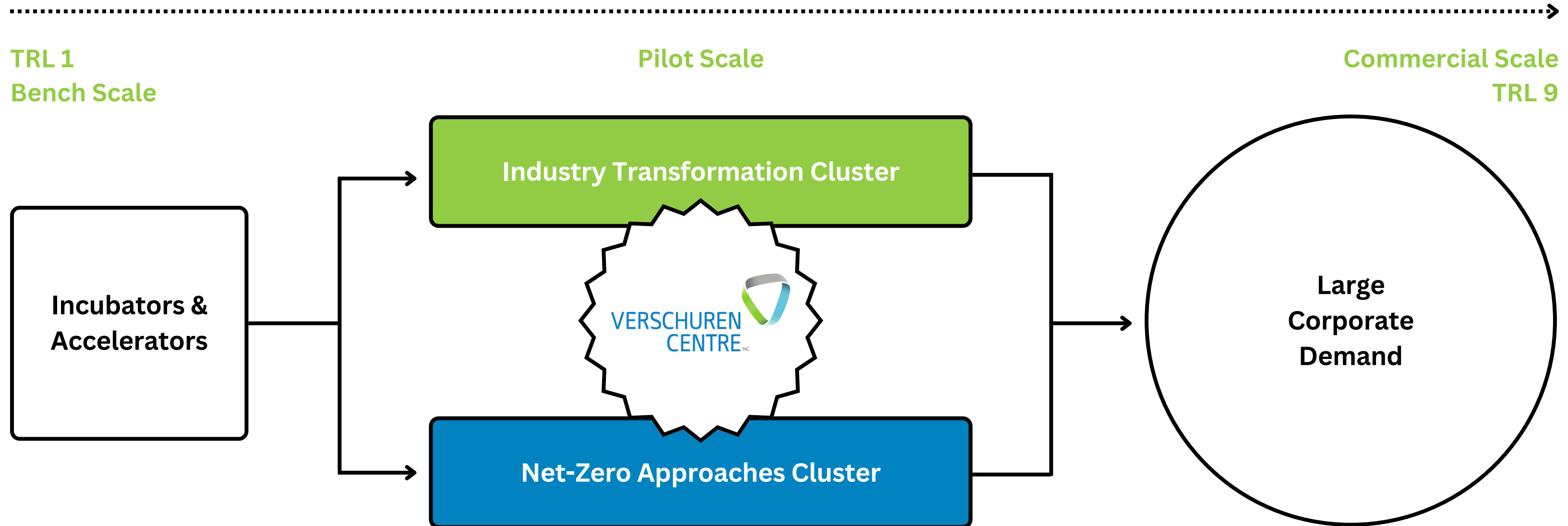
Carbon Transformation





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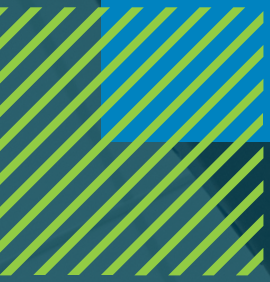
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Funds Raised  
**\$35M**

Loan &  
Non-dilutive  
**\$12.8M**

Combined Valuations  
**\$159.7M**

Employees in NS  
**38/108**

Expected Next  
Yrs Round  
**\$58.5M (n=9)**

Impact Metrics  
**SDG & GHG  
Reduction TBD**





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## alterbiota

Developing activated bio-graphene that are tailor-made for optimizing concrete mix designs

- Series A with bio-graphene
- Bench > Pilot > Demonstration & Co-Location with local NS Forestry (Freeman Lumber)
- Partnership with local cement company
- Adding hydrogen production, using by-product from their process



Developing a unique method of manufacturing low-cost, controlled release polymer-coated fertilizers

- Seed round
- Bench > Pilot unit > International export
- Local Manufacturer (COPOL) & Export Partner with Nutrien



Rapid pathogen detection technology that accelerates pathogen testing in to improve production capabilities and maintain public health and safety

- Series A with E.Coli pathogen detection
- Advancing with Salmonella and Covid detection
- Bench BSL2 > Demonstration > Production
- Local manufacturer (Protocase) and Local Testing (Truleaf)





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Self sustaining VC Model with direct whole ecosystem benefits – multiple sectors benefitting from SME's connecting primary industries to manufacturing.

Job creation locally 400 high qualified positions within NS, 4000 direct jobs nationally (Bio Manufacturing). Indirect multipliers.

Investment in NS \$3B (technical teams and pre-demonstration build); angel to Series A.

Investment in Canada with roll out of demonstration plants \$10B if only 10% assumed scale. Target 30%.

Direct and indirect GHG emissions reductions, large scale decarbonizing, multitude of SDG benefits.

Large scale training/retraining platform opportunities to provide HQP for SMEs & VC Inc growth.





Thank you  
for making a  
difference with us.

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