

Why Work at Lite-1

Our story began by thinking outside of the box to address one of the most complex issues of our time. We introduce the future of clean dye manufacturing by using microorganisms as factories of the future. Our passion for pushing scientific frontiers continues to grow everyday with the mission of making the world a better place for both humans and the environment. Our technology platforms enable the transformative science being done at the Lite-1, but a unique team of scientists and innovators make it happen. By joining Lite-1 you will become part of an exceptional mission and a multidisciplinary team of scientists and creatives operating at the leading edge of biodesign. We look for people who share our core values, science, passion, and respect to join us in our mission to provide ground-breaking solutions towards future proofing our colourful world.

We believe that equity, diversity, inclusivity and accessibility are essential for the advancement of human knowledge and science. We welcome all applicants and provide all employees with equal opportunity for advancement, regardless of race, colour, ancestry, place of origin, political belief, religion, marital status, family status, physical or mental disability, sex, sexual orientation, gender identity or expression unrelated to their employment.

By joining us you will:

- Work on exciting, collaborative and impactful projects in a fast-growing environment
- Have the opportunity to take creative approaches to scientific findings and think outside of the box
- Untap and learn the unique potentials of microorganisms in building a green future
- Be a part of initiating the biodesign culture in Canada

About Lite-1

We are a young creative group of multidisciplinary scientist and designers with the mission to build the next generation of sustainable dye and pigments grown by microorganisms as the dye factories of the future. Our innovation is a patented platform biotech that biofabrics customizable microbial dye to the need of end industry user. Our dyes reduce water pollution, are safe for workers as well as the ecosystem, and eliminate our dependence on non-renewable resources. The product offers an overhaul to the dye industry to shift from one of the preeminent polluters to a regenerative and more humane industry. Our main goal is to transform the dye industry from a toxic and hazardous industry to a clean, healthy, and circular one by introducing the future of dye manufacturing.

Responsibilities:

- Lead the design, synthesis, and development of dyes and dyeing processes, leveraging molecular modeling (e.g. TD-DFT) to innovate and optimize microbial dye formulations for textiles and other applications
- Lead stability and weathering investigations and conduct in-depth analysis and assessment of their physico-chemical and spectral properties including color properties analyses, colour-fastness, durability testing, and assessing the performance of the dyes on the target materials.

- Develop standardized procedures to evaluate the performance of formulated microbial dyes, ensuring performance and sustainability regulatory requirements are met.
- Develop dye formulations and processes , evaluate the scientific and industrial patent landscape for specialty performance additives to resolve processing issues or to enhance color performance properties.
- Maintain detailed records of experiments, findings, and formulation processes in compliance with company protocols.
- Collaborate with the R&D team to understand product requirements and provide formulation insights to guide dye development strategies.
- Work with our Production Department to ensure that all formulations issued are accurate and process friendly
- Coordinate with suppliers to keep abreast of new raw materials and technology available to maintain the highest quality formulations and processes
- Explore new synthesis methods or modify existing protocols to enhance dye performance and stability
- Identify and propose new opportunities for innovation.

Requirements:

- Completed a PhD degree in Chemistry, Bio-Chemical Engineering, Materials Science, Color Science or a related field; or a Masters degree in any of the above areas plus at least 2 years practical industry experience in the colorant chemistry or textile dye formulation industries.
- Previous experience in chemical synthesis, including setting up reactions, optimizing reaction conditions, and ensuring accurate execution.
- Proficient in monitoring reaction progress using analytical techniques such as TLC, spectroscopy (e.g., UV-Vis, IR), or chromatography, and interpreting results to ensure desired outcomes.
- Ability to troubleshoot and optimize methods and identify and address bottlenecks: creative problem-solving skills
- Be detail oriented, flexible and collaborative.
- interest in sustainable color science and textile processing.
- Ability to translate and apply new technologies to an industrial scalable process.
- Ability to succeed in a dynamic, highly collaborative R&D environment.
- Excellent communication skills (written and oral presentations) and competent with electronic lab note tools.
- Always be seeking ways to improve the performance and efficiency of dye formulations.
- Have an in-depth knowledge of safety protocols, handle chemicals properly, and ensure that the formulations comply with environmental and health standards.
- A proven track record of creative scientific accomplishment as evidenced by a strong publication and/or patent record.

High opportunity for growth and promotion within this creative, interdisciplinary cleantech start-up – the ideal candidate will be an integral part of this small team and rise with the success of the company.

FAQ:**1. Can I anticipate enjoying the startup scene?**

Ah, that's a great query. Working at a startup isn't everyone's cup of tea. We're fast-paced, with projects and priorities shifting rapidly. Ambiguity and uncertainty are part of the deal in this early-stage environment. Sure, there might be more lucrative offers elsewhere. The risk factor is high, but so is the reward. One thing's for sure: boredom won't be an issue. It's an opportunity for immense personal and professional growth, alongside the company's evolution. You'll be contributing to something grander than yourself, directly impacting a team dedicated to making the world better. And let's not forget about equity!

2. Is this job in person? Why would I want to move to BC?

Vancouver has a lot to offer! Firstly, it's among Canada's most beautiful cities and consistently recognized as one of the best places to live, especially for its year-round access to nature. Vancouver caters to various interests, and having you here would make it even more vibrant. This job requires your physical presence in Vancouver.

Job Types: Full-time, Permanent

Benefits:

- Casual dress
- Company events
- Extended health care
- Flexible schedule
- Paid time off

Work Location: Vancouver, BC, Canada

Email applications to sarah@lite-1.bio