

**Job Title**

Product Architect (Project Engineer)

Work Arrangement

2–3 days/week in the lab + weekly meetings

About Hyphn

At [Hyphn](#), we believe in the power of connection and continuity. Just as a hyphen links two words, our mission is to unite the journey from agricultural waste to sustainable packaging solutions, creating a seamless loop that champions environmental stewardship. We are dedicated to promoting sustainability through innovative practices and products that not only reduce waste but also enhance the lifecycle of our resources.

Our philosophy centers around the idea that sustainability is not just a goal; it's a continuous journey towards a healthier planet. By forging strong connections within the supply chain, we facilitate responsible consumption and contribute to a circular economy. Hyphn symbolizes the bridge between what is possible and what is necessary, ensuring that our actions today pave the way for a sustainable tomorrow.

Join us in our mission to create a better future—one that is interconnected and continuously evolving, just like the hyphen that binds our collective efforts together.

Job Description

We are looking for passionate and curious individuals to join our R&D team in developing mycelium-based solutions. In this role, you will improve product features by designing and running growth trials, hot-press parts, and testing properties (strength, hydrophobicity, oil/heat resistance), and translating findings into repeatable processes and product specifications.

We are seeking individuals with a strong interest in research, design, and experimentation to develop and evaluate mockup ideas and concepts. The role involves hands-on lab work, including working with mycelium and designing experiments to test and refine concepts. Candidates should be able to commit to a minimum of 5-6 months.

Qualifications, Skills, and Competencies

- Bachelor of Engineering (preferably, Materials Science and Engineering)
- NUS students only, Undergraduates and Graduate Students welcomed
- Hard Skills: Material Testing, Product Management, Manufacturing Processes
- Soft Skills: Proactive, Critical Thinker, Accountability, Communication, Self-motivated, Time Management



Duties and Responsibilities

- **Project Leadership:** Take ownership of the project, collaborating closely with teams to ensure successful execution.
- **Performance Evaluation:** Assist in evaluating and validating product performance to ensure it meets operational and quality standards.
- **Process Optimization:** Analyze workflows to identify opportunities for improvement, with a focus on automation and digitalization.
- **Documentation & Reporting:** Prepare project documentation, progress reports, and presentations to communicate updates and outcomes to management effectively.
- **Material Production:** Oversee the production of weekly batches of materials for product testing.
- **Material Testing & Characterization:** Assist in testing and characterizing materials to assess their suitability and performance.
- **Product Metrics:** Characterize and analyze product metrics to support development and improvement efforts.
- **CAD/tooling (optional):** Help design/iterate molds for improved cycle time and surface finish.

What you will learn

- End-to-end bio-manufacturing for mycelium composites
- Translating lab results into scalable manufacturing SOPs and product specifications
- Building MVPs for real customers (hospitality/F&B), including acceptance testing and iteration