



## Internship - Design for Disassembly/Construction Material Flow

With PICS funding support, Light House is seeking an intern to conduct research and work to complete a summary white paper on design for disassembly with a market analysis report on the flow of salvaged construction materials in BC and across Canada. The report will focus on researching resources currently available for design for disassembly in North America and Europe and construction material markets in British Columbia and across Canada. This report will also go into what successes/gaps exist to creating "reversible buildings" (buildings that can be deconstructed) with the potential to investigate specific materials and assembly types, such as, structural insulated panels, spray foam insulation, etc.

Light House produced two reports on construction waste in 2020, both concluded that to address construction and demolition waste generation we need to change the way we design and construct our buildings. Deconstruction is inching its way into the Greater Vancouver market and other markets across Canada as an alternative for demolition of single-family homes, but progress will be limited by building assemblies and materials that cannot be taken apart for recycling or reuse. With construction and demolition waste comprising more than 30% of the landfill in Metro Vancouver, design for disassembly is a solution for reducing waste generation and helping to predict waste management in the future and ultimately create a circular economy in the Canadian building industry.

Start: Now (end of June)

Timeframe: July/August 40 hours per week, September – December min 12 hours average per week (520 hours in total)

Wage: Starting at \$20/hour, based on experience

Light House is a *Living Wage for Families* certified employer. We are committed to providing equal opportunities and equal compensation. Wages are not influenced by gender, race, ethnicity or identity. At Light House, we embrace diversity. Every individual brings something unique to the team that allows us to have a diverse perspective and solve problems more inclusively and more equitably.

## Qualifications

### Education

- Enrolled in full time undergraduate or graduate program in **UVic, UBC, UNBC, SFU**. Student must either be returning to complete their degree programs following the internship or have complete their programs the semester prior to the start of the internship.

### Experience

- Demonstrated familiarity with building design, and/or construction.
- Experience in research
- Demonstrated familiarity with research techniques including finding reputable sources, academic citation styles and general writing skills.
- Familiarity with carbon neutral, biophilic, healthy building, modular construction or other sustainability-related design and construction concepts will be considered an asset.
- Knowledge of life cycle analysis and sustainable building materials will be considered an asset.

### Skills



- Detail-oriented.
- Strong organizational abilities and good time management and project planning abilities.
- Ability to multi-task and use sound judgment to prioritize activities.
- Excellent verbal and interpersonal communication skills.
- Excellent command of Microsoft Word, Microsoft Excel, Microsoft Outlook, Microsoft PowerPoint.
- Ability to use video conferencing platforms, such as, Microsoft Teams and Zoom, to name a few.
- Proficient in spoken and written English.
- Ability to solve problems creatively and practically.
- Ability to work independently or in a team setting.
- Flexibility and the ability to work in an unstructured environment.
- Confident and able to take responsibility for decisions.
- Personal commitment to sustainability.

## Location

Light House is grateful to operate on the traditional, ancestral and unceded territory of the Coast Salish People - Skwxwú7mesh (Squamish), Stó:lō, Səlílwətaʔ/Selilwitulh (Tsleil-Waututh) and xʷməθkʷəy̓əm (Musqueam) Nations. **This position is remote and can be held in locations outside of the Lower Mainland.**

## About Light House

At Light House, we work to create regenerative built environments that restore ecological and human health. We do this with a team of interdisciplinary experts that provide more than just technical advice and green building certifications. Over the past 15 years, we have worked with the industry to implement practices, strategies and policies that put them ahead of the sustainability curve.

As a non-profit, Light House moves the industry forward through educational programming, facilitating partnerships, conducting research and advocacy work related to the regenerative built environment. We provide services including zero waste, high performance building, health and wellbeing and circular economy solutions. Light House's operations within the circular economy include the National Industrial Symbiosis Program (NISP®) Canada, which works with businesses and other organizations to identify opportunities for waste and surplus materials to be re-purposed as valuable inputs elsewhere in the economy. Light House's "Circular Sense" initiatives also include the delivery of the BizBiz Share platform in BC, which is called BizBiz BC. This initiative uses an online B2B marketplace and specific analytics to re-purpose a wide variety of materials and other resources.

Please provide a cover letter and CV **by email only** by **11:59PM June 25, 2021** to:

lucia@light-house.org

While we truly appreciate all applications, only those selected for interview will be contacted. We would like to thank the Pacific Institute for Climate Solutions (PICS) for providing funding for this position.