



## SPONSORSHIP PACKAGE

2021-2023 Build Challenge



THIRD  
QUADRANT  
DESIGN

# The Team

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2021/22 Design Team at Project Site

67 Students | 14 Programs | 4 Faculties | 10 Sub-teams  
60% femme identifying team since inception

Third Quadrant Design was founded in 2019 by three female engineering students looking to fill the gap in green building education at UBC. Our team is named after the third quadrant of the carbon-energy coordinate plane, symbolizing our goal of net-zero energy and net-zero embodied carbon design. We are an interdisciplinary group of students who are passionate about the climate crisis, as well as actively engaged in learning, designing, and constructing buildings with a climate-first approach. As the first green building design team at UBC, we have the unique opportunity to enable students with the knowledge, skills, and enthusiasm needed to make a difference in this growing industry.

## HISTORY & ACCOMPLISHMENTS

Third Quadrant competed in the 2020 and 2021 U.S. Solar Decathlon Design Challenges, winning first place over consecutive years in the Urban Single-Family and Mixed-Use Multi-Family divisions, respectively.

Our 2020 submission, Solis House, was a two-story self-sustaining home priced significantly below the cost of similarly sized, but less environmentally conscious, housing in the Vancouver market.

Following this initial success, the team took on the larger challenge of entering the Mixed-Use Multi-Family division in 2021. Laundry Haus, a retrofit of a two-story historic warehouse in the Mount Pleasant area of Vancouver, aimed to effectively mix multiple types of residential housing, common areas, and retail spaces while maintaining a low carbon impact.

With both designs achieving top results, Third Quadrant is now focused on the two-year endeavor of the U.S. Solar Decathlon Build Challenge, which will be completed in Spring 2023.



Render from 2020/21 Design Challenge



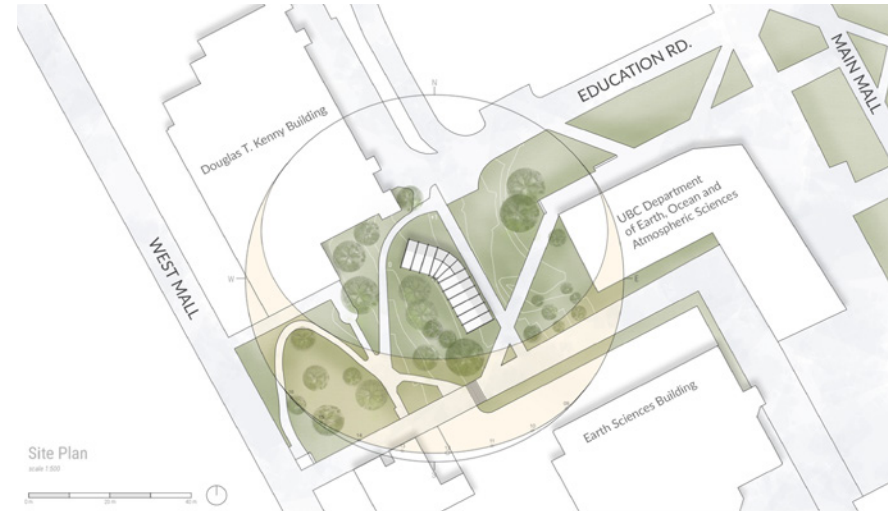
# The Challenge and Our Vision

The US Department of Energy's Solar Decathlon is a competition that invites university students around the world to design and build efficient, holistic, and affordable renewably-powered buildings. Since 2002, this contest has empowered students and young professionals to develop their technical skills by designing solutions to global issues. The competition is split across two challenges: the Design (annual) and Build (biennial) Challenges. In both contests, teams are assessed across ten categories: architecture, engineering, market analysis, durability & resilience, embodied environmental impact, integrated performance, occupant experience, comfort & environmental quality, energy performance, and presentation. This year, Third Quadrant Design will represent the University of British Columbia in a competition with 36 other collegiate institutions from ten different countries in the 2023 Solar Decathlon Build Challenge.

## THE BUILD

Over the next two years, the team will design and build a net-zero energy, net-zero carbon single-family home. To achieve net-zero carbon, the team is seeking low embodied carbon materials and systems, in conjunction with using the landscape to sequester carbon. Carefully deconstructed materials from AYO House, a building already scheduled for demolition, will highlight the potential of adaptive reuse as a viable strategy to further reduce the embodied carbon cost of new buildings.

The building will be constructed, exhibited, and evaluated on UBC's Vancouver campus, with a dedicated in-person presentation taking place at the U.S. Department of Energy's National Renewable Energy Laboratory in Golden, Colorado in April 2023.

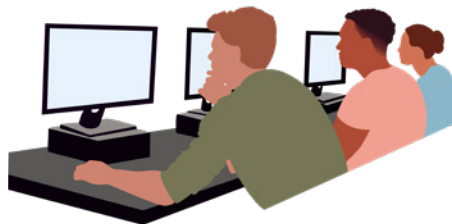


Preliminary Site Plan

## LIFE AFTER

Following the competition, Third Quadrant Design will transform the building from a live-work home into an institutional “third space” and “living lab”, a space on campus that serves as an integrated design hub for zero emissions, regenerative, and climate resilient design practices. In addition to providing students with an informal space to meet and collaborate, and the completed project will exist as a formal space for students to research, test, and interact with the building. The building has been approved to remain on campus until 2030.

## Key Building Activities



Monitoring



Collaborating



Prototyping

# Why Sponsor Us

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The transition to a greener, more regenerative world will require cross-disciplinary efforts from both industry and academia, led by grassroots movements with students at the forefronts. By sponsoring Third Quadrant Design, you are directly fostering opportunities for students to engage in the green building sector and collaborate with students from diverse academic backgrounds toward the holistic goal of transforming the building industry into one that places regenerative design as its target. With the upcoming design-build project at UBC, your support will contribute to a highly visible, concrete symbol of modern environmentalism, and your contributions will have tangible impacts to all students, staff, and visitors at UBC's Vancouver campus.



Mentor and recruit the designers and leaders of tomorrow



Contribute to student learning and cross-collaboration



Brand recognition at a local and global scale

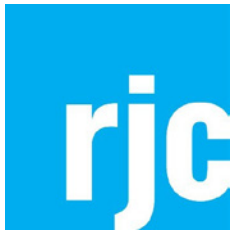


Build a sustainable world

## Past Sponsors and Partners

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Third Quadrant Design has been incredibly fortunate to have already received tremendous support since we were formed in 2019. Below is a list of our previous partners. Thank you for your continued support of our team!



INTEGRAL

FRANCL  
ARCHITECTURE



catalyst



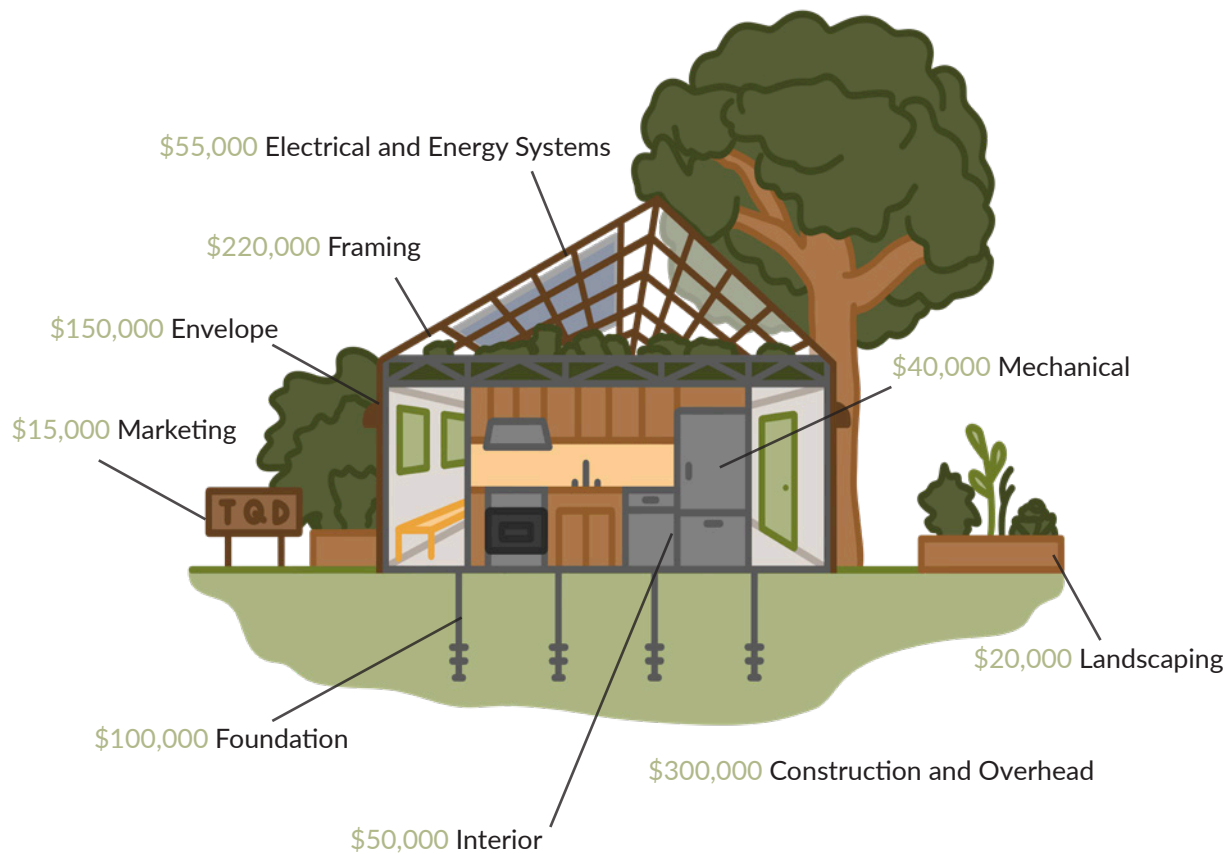
ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA



THE UNIVERSITY  
OF BRITISH COLUMBIA

Faculty of Applied Science

# Fundraising Goal: \$800,000



## Budget

Electrical and Energy Systems	\$55,000
Building Envelope	\$150,000
Mechanical	\$40,000
Framing	\$220,000
Foundation	\$100,000
Landscaping	\$20,000
Construction	\$300,000
Marketing	\$15,000
Interior	\$50,000
<b>Total</b>	<b>\$950,000</b>
<b>UBC Support</b>	<b>-\$150,000</b>
<b>Fundraising Goal</b>	<b>\$800,000</b>

*Monetary equivalent*

# Sponsor Benefits

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To meet our fundraising goal, we are looking for both monetary and in-kind donations. In-kind donations will be valued at their market price. Sponsors will receive business acknowledgements for the total market value of their monetary and/or in-kind donations, and will also receive public recognition based on that value, as follows:



## *seed sower*

\$5,000 - \$7,499

Recognition on our promotional material by name.



## *cultivator*

\$7500 - \$9,999

Seed-sower benefits +  
Company logos on newsletters  
and feature on team website.



## *wallraiser*

\$10,000 - \$24,999

Cultivator benefits +  
Company name on building  
donor wall and on team t-shirts.



## *rainmaker*

\$25,000+

Wall-raiser benefits +  
Company name on building  
donor wall.





THIRD  
QUADRANT  
DESIGN

- @ thirdquadrant.ubc@gmail.com
- 📍 2260 West Mall, Vancouver, BC V6T 1Z4
- 📷 @thirdquadrantubc
- f @thirdquadrantubc
- in @thirdquadrantubc