



Building Excellence Research & Education Grants

The Building Excellence Research & Education Grants program continues to foster innovation and best practices to strengthen the housing sector. Since its inception, the program has awarded more than \$3.59 million in grants to industry and consumer organizations, education providers, and researchers. Each year, BC Housing receives a wide range of submissions and supports initiatives to expand knowledge and advance best practices. To date, the program has funded more than 110 new research and education projects. This includes innovative projects that improve the quality of residential construction and strengthen consumer protection for new home buyers. This year, BC Housing is distributing \$301,500 in grant funding. This report outlines the results of the 2022 application intake and the successful grant recipients.

Funded Projects 2022

Canadian Home Builders' Association of BC (CHBA BC)

\$30,000

Develop a dedicated course specific to the EnerGuide Rating System for existing homes to address the unique climate challenges.

Kor Structural

\$30,000

Investigate novel solutions which can increase the effectiveness of steel coupling beams (SCB) in concrete core walls and develop practical Canadian design guidelines for SCB.

University of Windsor

\$30,000

Develop a conceptual framework for a digital shadow that simulates the resiliency performance of MURBs to complement ongoing smart city initiatives in Canada.

University of British Columbia - Okanagan

\$30,000

Produce a decision support tool and provide recommendations for

designing BC Energy Step Code compliant buildings to consider future uncertainties, including climate change.

Blue House Energy

\$28,500

Develop content for three training modules on the BC Energy Step Code to help builders prepare for upcoming building code changes.

Read Jones Christoffersen Ltd.

\$30,000

Utilize machine learning-informed energy modelling to identify upgrades across building systems that go beyond replacing like-for-like building components with designs that aid decarbonization in anticipation of requirements for future existing buildings.

Naikoon Contracting Ltd.

\$30,000

Identify, document, and quantify opportunities to expedite project delivery using VDC for shop drawings as part of an "Integrated Design Process" to improve build quality.

Ecotrust Canada

\$30,000

Produce a best practices decision-making resource through the application of local materials and labour utilization in residential construction to promote self-sufficient housing systems for rural and remote Indigenous communities.

Fraser Basin Council

\$30,000

Conduct research to understand and identify barriers and challenges to adopt EV charging infrastructure in social housing and Indigenous communities.

UBC-ASSET Group

\$30,000

Address procedures to facilitate the construction of resilient tall buildings in B.C. through the development of practical, seismic design guidelines for outrigger buildings.

Morrison Hershfield

\$3,000

Research to illustrate the energy savings potential for new buildings through operable panels using annual energy models.