



# Building Excellence Research & Education Grants

## Funded Projects - 2017

### **Building Officials Association of BC**

**\$ 40,000**

Develop and implement across B.C. a multi-module, web-based, on-demand training course to help ensure industry practitioners understand the application of Part 9 of the BC Building Code to Level One buildings (single family homes and duplexes).

### **Cleantech Community Gateway**

**\$ 40,000**

Work with three First Nations communities with different geo-climatic conditions to assist in community consultations and housing needs analysis, and develop framework and implementation methodology to access durable and sustainable housing.

### **Canadian Home Builders' Association of BC**

**\$ 35,000**

Review and update content, and develop syllabus to replace the association's existing course on *BC Building Code for Single Family Dwellings* with three smaller courses, adding online quizzes and contents to better meet the needs of the students.

### **Concordia University**

**\$ 39,100**

Perform durability and energy modelling analysis to anticipate the performance of buildings in our future climates, as Canada expects higher temperature and solar radiation, stronger wind and more precipitation, and more frequent storms.

## Funded Projects - 2017

### **FPIInnovations**

**\$ 40,000**

Evaluate the effect of sheathing diffusion ports on the drying performance of newer wood-frame walls used in multi-unit residential construction in B.C.

### **Fraser Basin Council Society**

**\$ 15,000**

Produce a short "How-to" video series that will offer introductory training on basic energy efficiency retrofits and building envelope maintenance.

### **Greater Vancouver Home Builders' Association**

**\$ 40,000**

Offer a series of education seminars on-line, in Punjabi, as an option for some builders to acquire informal continuing professional development.

### **Hamid Design Build Ltd**

**\$ 40,000**

Investigate and document in detail the factors contributing to the risk of condensation, and present a holistic approach and the steps to reduce condensation on new windows.

### **Interior B.C. Residential Construction Institute**

**\$ 13,900**

Develop and deliver an educational guide and a training course to provide owner builders with the essential skills and knowledge necessary to successfully manage the safety requirements of a home building project.

### **Langara College**

**\$ 15,700**

Develop the curriculum for a certificate program on the energy assessment of building systems and equipment.

### **New York Institute of Technology - Vancouver**

**\$ 40,000**

Design and construct an *Education Energy Management Test Bench* (EEMTB), and produce videos and deliver workshops which use the EEMTB to explain the basics of key emerging technologies to consumers and builders.

### **Owner Builder Training Ltd**

**\$ 10,075**

Develop and pilot a training course to help owner builders understand the project management needs of a home building project.

## Funded Projects - 2017

### **Plassurban**

**\$ 38,500**

Research, collaborate and consult with a range of organizations to produce a report on best practices in providing affordable and sustainable multi-generational housing, and develop an industry toolkit to help evaluate and implement options for aging in place.

### **Small Housing BC**

**\$ 40,000**

Identify three municipalities that are committed to facilitating infill developments in one or more existing neighbourhoods, and work with them and outreach to industry and consumers to conduct research on appropriate small housing forms and typologies.

### **The Professional Home Builders Institute**

**\$ 40,000**

Develop and release two online formal training courses, on *Problem Solving in BC Home Building*, and on *Builder Ethics & the Home Buyer*, that will assist in reducing warranty claims and increasing home buyer satisfaction.

### **University of Toronto**

**\$ 40,000**

Conduct research on climate-specific daylight qualities in condo buildings with various floor plan options, and develop daylighting guidelines to enable building designers and developers to test options before determining suite layouts and building forms and orientations.

### **University of Victoria**

**\$ 40,000**

Document and disseminate the development, testing and validation of a technique that quantifies building envelope energy performance, and identifies areas of concern, using *Unmanned Aerial Vehicles (UAVs)*, thermal imaging and advanced data collection and processing methods.

### **WBI Home Warranty Ltd**

**\$ 40,000**

Provide online webinars for builders, consumers and the community to gain knowledge on a wide array of residential construction topics.