



# unitar

United Nations Institute for Training and Research

## Unitar Online Catalogue

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### CIFAL York - Drone-based Thermal Mapping of York University Keele Campus Buildings for Sustainability and Energy Efficiency

#### People

Deadline: 8 Oct 2024

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Type:	Other
Location:	Toronto, Canada
Date:	27 Oct 2024 to 15 Dec 2024
Duration:	6 Days
Programme Area:	Decentralize Cooperation Programme
Website:	<a href="https://www.yorku.ca/sustainability/">https://www.yorku.ca/sustainability/</a>
Price:	\$0.00
Event Focal Point Email:	cifaldirector@yorku.ca
Partnership:	CIFAL York, ADERSIM, York University

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#### BACKGROUND

York University's Office of Sustainability is working on improving sustainability efforts and minimizing inefficiencies across their campuses. The Office of Sustainability aims to use drone technology to create thermal maps of the campuses to find buildings that are inefficient and poorly insulated.

## EVENT OBJECTIVES

- Create a thermal map of all York University campus buildings
- Find inefficiencies that can be corrected
- Determine where energy is being lost on York University's campuses

## CONTENT AND STRUCTURE

Drones with thermal imaging sensors are flown over the campus each Sunday morning to create a complete thermal map of the campus. These images are used to find inefficiencies and determine which buildings are most in need of upgrades to prevent excessive energy loss.

## METHODOLOGY

Drones with thermal imaging sensors are flown over the campus each Sunday morning to create a complete thermal map of the campus. These images are used to find inefficiencies and determine which buildings are most in need of upgrades to prevent excessive energy loss.

## TARGETED AUDIENCE

Office of Sustainability