

PhD Studentship

Start date: September 2018 or January 2019

PHD STUDENTSHIP IN ENVIRONMENTAL DESIGN: Mixed-use, Energy Efficient, Solar Communities

The objective of this fully-supported four-year Ph.D. studentship is to develop novel **Design Methodology of Mixed-use, Energy Efficient, Low Carbon, Solar Communities**.

Duties

The duties of the successful candidate include the following:

- Research related to improving energy efficiency in building and communities (including methods of energy generation, sharing of energies between buildings, etc.). Research methods might require programming and simulations using advanced energy programs such as EnergyPlus, TRNSYS, etc.
- Developing models of advanced energy systems for mixed use communities
- Analysis of energy performance of mixed-use neighborhood patterns.
- Writing reports and papers based on the results

Candidate Selection Criteria

A number of skills are required to conduct this research including knowledge in energy simulations (or capability of developing proficiency in energy simulations), knowledge of basic building system design (building envelope, building mechanical systems, etc.) and computer programming. The following are essential conditions:

1. Be a new PhD student to the University of Calgary (i.e. not currently enrolled in a University of Calgary PhD program), beginning a doctoral program in September 2016 or January 2019.
2. Be of the highest caliber (GPA of at least 3.5/4.0, or equivalent, in their last two years of study).

Priority will be given to students with (1) a positive can-do attitude and willingness to work hard, (2) ability for team work, (3) Publications; (4) a demonstrated knowledge in energy modeling, and usage of advanced simulation tools such as Energy Plus and (4) experience in computer programming .

Good communication skills in written and spoken English are essential.

To Apply:

Please send applications and enquiries to Dr. Caroline Hachem-Vermette (caroline.hachem@ucalgary.ca) including:

- A CV, including full details of all University course grades to date
- A sample of publications (conference paper, journal paper)

- Contact details for three academic or professional referees
- A personal statement (750 words maximum) outlining your suitability for the work

Applications will be accepted until the position is filled.