University of British Columbia
Ph.D. positions in Wood Building Design and Construction

Scientific area: Timber Engineering, Wood Science, Structural Engineering, Earthquake Engineering and related fields.

General description:
Two positions are open for Ph.D. students at the Department of Wood Science at the University of British Columbia, Vancouver, Canada. The successful applicants will contribute to the newly formed 'Advanced Wood Building Systems Engineering Lab' headed by Dr. Cristiano Loss. We are looking for skilled and highly motivated individuals to pursue a Ph.D. in Wood Building Design and Construction.

About the Department:
The [Department of Wood Science](#) represents one of the three departments that comprise the [Faculty of Forestry](#) at the University of British Columbia. The [University of British Columbia](#) is a global center for [research and teaching](#), consistently ranked about top 40 universities in the world and ranked among the top 20 public universities worldwide. The Vancouver Campus is located in the cosmopolitan city of [Vancouver](#), Canada and offers a large number of outdoors activities, including aquatic sports and ski.

Research description:
Successful candidates will carry out their research in one of the following subjects: i) Performance-based optimum seismic design methods and procedures for timber buildings, ii) Hybrid timber-based modular construction systems for prefabricated buildings, iii) Mass-timber-based systems for the next generation of tall timber buildings. Students will contribute to contemporary research topics that will have strong potential for practical applications. The outcomes are expected to contribute to the current and future building sector significantly, introducing new concepts for the building industry. Students will be prepared for qualified positions in academic or industrial fields at a later date.

Qualifications:
Students who hold an M.Sc., M.A.Sc., M.Eng. or equivalent degree are encouraged to apply. The ideal candidates should have a solid background in timber engineering, mechanical engineering, and structural design, as well as good knowledge of finite element analysis (FEA), statistical data analysis, and testing methods. Knowledge of programming in C++/Python or other languages, or application programming interface coding will be considered an asset. Qualified students will be provided with full financial support and trained to perform independent research.

Research Assistantships:
A four-year assistantship will be provided to the selected candidate, for a total Graduate Research Assistantship (GRA) package of $23,000/year 12-month-based stipend. There is also the possibility of additional funding through the Graduate Teaching Assistantship (GTA) program.

How to apply
Interested students are invited to contact Dr. Cristiano Loss at cristiano.loss@ubc.ca. Please send a letter of intent, a copy of your CV and contact information of at least two references. Use subject 'Application PhD#A2019' when emailing. Only short-listed candidates will be contacted for interviews.

Regarding full application procedure, admission requirements and other relevant information, please visit:
https://forestry.ubc.ca/students/graduate/programs/doctor-of-philosophy/phd-how-to-apply/

For further information and inquiries: please contact Ms. Robin Poirier-Vasic Graduate Admissions Coordinator, forestry.grad@ubc.ca.