

Graduate Research Assistantships University of British Columbia

The Department of Wood Science at the University of British Columbia has openings for two graduate assistant positions at the M.S. and Ph.D. levels, starting in September 1, 2018. The successful candidates will be expected to work on the synthesis and application of bio-based nanomaterials, including cellulose nanocrystals, cellulose nanofibrils, and lignin nanoparticles. The students will receive comprehensive training on the cutting-edge technologies of bio-based nanomaterials synthesis, characterization, and advanced applications.

Job responsibility:

- Isolation, synthesis, and modification of bio-based nanomaterials;
- Characterization of as-derived nanomaterials using advanced imaging and surface interaction techniques;
- Assembly of bio-based nanomaterials into hierarchical structures;
- Exploration of the application as structural and functional materials;
- Preparation of lab report and manuscript for publication;
- Presentation at international conferences.

Desired qualification:

- B.S. or M.Sc. (required for Ph.D. program) degree in wood chemistry, carbohydrate chemistry, polymer chemistry/engineering, materials science and engineering, or related discipline;
- Research experience in lignocellulosic materials is desired but not mandatory;
- Must be in good academic standing and maintain a GPA of 3.5 or above;
- Demonstrate good English communication and writing skills;
- Demonstrate strong self-motivation and independent research ability;
- International applicants are required to take TOEFL (minimum 100, Reading – 23; Writing – 24; Listening – 23; Speaking – 22) or IELTS (minimum 7.0 for overall score, minimum 6.5 for each component) tests.

For students who are interested in this position, please send an application package including Cover letter, Resume, Research Statement (including both past experience and future plan, should not exceed three pages), and transcripts to Dr. Feng Jiang (jiangf.vt@gmail.com). A Skype/phone interview will be scheduled for top candidates, and three letters of recommendation are required for the selected candidates. More information on the graduate program in the Faculty of Forestry is available at <http://www.forestry.ubc.ca/students/graduate/programs/>, and information for the Department of Wood Science can be found at <https://wood.ubc.ca/>.

The University of British Columbia (UBC) is a global centre for research and teaching. Surrounded by the beauty of the Canadian West, UBC embraces bold new ways of thinking

that attract exceptional students and faculty. It is a place where innovative ideas are nurtured in a globally connected research community, providing unparalleled opportunities to learn, discover and contribute.