

Graduate Research Opportunities in Plant Reproduction and Biomechanics

Funding is available to support graduate students (M.Sc. and Ph.D.) interested in Plant Reproduction and Biomechanics at the University of Guelph. Several projects involving laboratory, field, and numerical modelling are envisioned involving economically and ecologically important plant systems. Candidates should have an interest in mechanics and an aptitude for mathematical and/or statistical approaches in plant biology.

(1) Mechanics of Wind Pollinated Plants:

A PhD position is available to examine the mechanisms and mechanics of wind pollination in conifers, forbs, and/or grasses using field study and modern techniques (anemometry) in wind tunnels and via computational fluid mechanics. This biophysical approach will help inform colleagues involved in a larger initiative.

(2) Ecophysiology of in Macrophytes:

A MSc/PhD position is available to examine the interaction among fluid dynamics, morphology, and physiology in aquatic plants in the laboratory (Particle Image Velocimetry, O₂ microelectrodes, flow chambers) and in the field. Both ecological and physiological approaches are planned.

Interested students are encouraged to contact:

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