## Doctoral Student in Osteoarthritis and Chondrocyte Mechanotransduction

## Start Date: September 2018

A doctoral position is currently available for a research project investigating the mechanism by which integrin  $\alpha 1\beta 1$  protects the knee from osteoarthritis. Specifically this graduate student will assess the interplay between the collagen receptor integrin  $\alpha 1\beta 1$  and growth factor receptors such as transforming growth factor  $\beta$  receptor 2 and epidermal growth factor receptor in the development of spontaneous (with old age) osteoarthritis.

Experimental work will take place in the Department of Human Health and Nutritional Sciences at the University of Guelph and will be carried out in collaboration with colleagues within Canada and the USA. This project is currently funded by CIHR and the University of Guelph. Completion of WHMIS, lab safety and biosafety training provided by the University of Guelph will be required of the chosen candidate upon acceptance into the program.

Candidates should have an MSc or equivalent in Cell Biology/Tissue Biomechanics or a related field and have a strong laboratory based research experience. An enthusiastic, self-motivated and hard working person with strong interpersonal and communication skills is required. The chosen candidate will be competitive for and expected to apply to NSERC or CIHR for external stipend support. Experience working with rodents and/or microCT, confocal microscopy, histology or immunohistochemistry techniques would be an asset.

Interested candidates should send their unofficial transcript, updated CV and a one page statement of research interests to:

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