



**UNIVERSITY OF CALGARY**  
FACULTY OF VETERINARY MEDICINE

**Graduate student position in Pain and Welfare**

**Faculty of Veterinary Medicine (UCVM)**  
**University of Calgary**

A graduate student position (MSc or PhD) is now available at the University of Calgary (Foothills Campus) in Dr. Daniel Pang's research group.

Our lab is interested in pain assessment and refinement of euthanasia in laboratory rodents. Rats and mice are commonly used in biomedical research and the majority of these animals are euthanased at the end of the experiment. The occurrence and mechanisms of pain and nociception associated with current euthanasia techniques are not well characterised. We focus on the use of spontaneous behaviours associated with pain, such as the emission of ultrasonic vocalisations and changes in facial expression, to understand the effects of different euthanasia techniques. This knowledge will allow refinement of current techniques and development of novel alternatives. For more information see: <http://www.vet.ucalgary.ca/profiles/daniel-pang>

The successful candidate will be joining a small, dynamic laboratory with expertise bridging clinical and laboratory research. Our laboratory is a member of UCVM's Pain and Welfare Research Group and the Hotchkiss Brain Institute, both of which provide social and academic graduate student support.

Full stipend support will be provided (\$20,000/year) and internal top-up funding is available on a competitive basis. The successful candidate must be academically competitive and will be expected to apply for external funding.

Situated close to the Rocky Mountains, Calgary is a thriving city with enviable access to outdoor recreational activities year-round.

For additional information please contact Dr. Daniel Pang. Interested individuals should submit a *curriculum vitae* and cover letter to:

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