



Graduate student in Pluripotent Stem Cells and Regenerative Biology (PhD or MSc)

The Chu laboratory, a **Canada Research Chair (Tier II) in Cellular Reprogramming** at the **University of Calgary** (<https://www.chulaboratory.org/>) is currently recruiting **Ph.D. and/or M.S** students interested in the field of pluripotent stem cell biology and regenerative medicine. We anticipate the position to start in **Fall 2021 or Spring/Summer 2022**.

Research: The research aim of graduate studies will be to investigate the nature of species-specific pluripotent stem cells and *in vitro* modeling to mimic development and disease states that are otherwise challenging to study. These cell-based models are important for applications in regenerative medicine. Our approaches include live-cell imaging, gene editing & molecular biology tools, single-cell and bulk RNA-seq, mouse genetics and comparative biology focused on species-specific features. We are also interested in developing therapies for congenital conditions such as spinal deformity.

Qualifications: BS or MS in a pertinent area (e.g., medicine, biomedical science, zoology, molecular biology) is necessary. Ability to work independently with good communication skills in English is required. Experience in immunology or molecular biology, animal models, and lab techniques (e.g., qPCR, immunofluorescence, western blotting, ELISA, cell culture) are desired.

Salary: Candidates must be academically competitive and will be expected to apply for external funding. Minimum stipend is \$22,000/yr (\$23,000/yr PhD) with internal top-up award opportunities available.

Apply: Please contact Dr. Chu <lifangjack.chu@ucalgary.ca> with 1) CV, 2) transcripts, 3) an outline of research interests and 4) the names and contacts of 2-3 referees who will be willing to provide a reference.

Research environment at the University of Calgary: The Chu lab is part of the Faculty of Veterinary Medicine (UCVM, <http://www.vet.ucalgary.ca>) and a member of the Alberta Children's Hospital Research Institute (ACHRI <https://research4kids.ucalgary.ca/>). UCVM is well established amongst research-intensive North American veterinary colleges with high-quality research programs and graduate training program. There are over 70 faculty members, 125 DVM students, 110 graduate students, 25 post-doctoral fellows, and 15 advanced clinical trainees. In addition, UCVM is closely integrated with the Cumming School of Medicine (<https://cumming.ucalgary.ca/>). Trainees will be in a unique environment with outstanding research infrastructures and opportunities to interact with top research scientists disciplined in infectious disease, human and animal health. Calgary is a vibrant, multicultural city with a population of over 1.5 million. It is located near the Rocky Mountains, Banff National Park and Lake Louise and offers an enormous opportunity for outdoor activities both in winter and summer.

The University of Calgary is Canada's leading next-generation university – a living, growing and youthful institution that embraces change and opportunity with a can-do attitude. Located in the nation's most enterprising city, the university is making tremendous progress on its Eyes High journey to be recognized as one of Canada's top five research universities, grounded in innovative learning and teaching and fully integrated with the community it both serves and leads. The University of Calgary inspires and supports discovery, creativity and innovation across all disciplines. For more information, visit ucalgary.ca. To succeed as one of Canada's top universities, where new ideas are created, tested and applied through first-class teaching and research, the University of Calgary needs more of the best minds in our classrooms and labs. We're increasing our scholarly capacity by investing in people who want to change the world, bringing the best and brightest to Calgary to form a global intellectual hub and achieve advances that matter to everyone. For more information visit research.ucalgary.ca