



Five New Faculty Positions in Basic Sciences at the Faculty of Medicine and Dentistry at the University of Alberta!

In the context of its "Cohort Hire Initiative", The Faculty of Medicine and Dentistry is looking to appoint five new talents in:

- The application of pharmacogenomics to the treatment of neurological disorders;
- Stem cell biology, with a focus on rare diseases affecting children;
- Cancer biology, with a focus on breast cancer;
- Developmental neuroscience;
- Medical microbiology and immunology.

The Department of Biochemistry is looking for

**Assistant Professor (tenure-track) in cancer biology, with a focus on
breast cancer**

Competition No. - **A100149531**

Closing Date - **Will remain open until filled.**

The Department of Biochemistry, in conjunction with the Cancer Research Institute of Northern Alberta (CRINA), at the University of Alberta invites applications for a research-intensive position in cancer biology, with a focus on breast cancer. This position is a tenure track position and will be a full time 1.0 FTE with the rank of Assistant Professor.

The successful applicant will be expected to establish and maintain an independent research program in discovery and/or applied cancer research with an emphasis on breast cancer. The individual will contribute to the Department's teaching and research supervision of undergraduate, graduate, and post-graduate learners. The successful candidate is expected to become an active member of CRINA. Some administrative duties to the Department, Faculty, University of Alberta are also expected.

We are seeking applications from individuals with;

- PhD or related degree in biochemistry or a similar field
- Demonstrated research strengths deciphering molecular mechanisms of cancer. This could include (but is not limited to), incorporation of innovative model systems (e.g. 3D organoids, animal models, patient-derived material), with advanced methodologies (e.g. imaging, flow cytometry, -omics), and comprehensive analytical approaches (e.g. bioinformatics, machine learning).

Significant assets include demonstrated expertise in some of the following areas:

- exploring molecular mechanisms of cancer biology (e.g. oncogenesis, growth, metastasis, treatment resistance)
- innovative model systems (e.g. 3D cell/tissue organoids, mouse models, patient-derived material)
- advanced methodologies (e.g. imaging, flow cytometry, screening, omics including spatial/single-cell)
- comprehensive analytical approaches (e.g. bioinformatics, omics analysis, machine-learning)

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- integration of clinical samples/data

Department summary

The Department of Biochemistry is a research-intensive department fostering fundamental investigations of biological molecular mechanisms (<https://www.ualberta.ca/biochemistry/index.html>). Our large undergraduate and graduate education program comprises more than 1,500 students per year and provides excellent scientific training and skills development with an emphasis on research. Broad departmental discipline expertise yields discoveries in cancer, metabolism, heart disease, neurological disorders, and infectious diseases, among others.

The FoMD is comprised of 21 departments, 7 Research Institutes, and 6 Core facilities. Core facilities provide state-of-the-art research infrastructure and expertise, including world-class Flow Cytometry and Cell Imaging Cores (<https://www.ualberta.ca/medicine/research/corefacilities/index.html>). The department is the home of proteomic infrastructure and expertise (<https://apm.biochem.ualberta.ca/Contact.html>) with an ongoing history of excellence in structural biology.

CRINA is a research institute that facilitates and supports multidisciplinary cancer research across the University (<https://www.ualberta.ca/cancer-institute/research/index.html>). Its members have made exciting discoveries in fields such as mechanisms of tumor cell proliferation/metastasis, DNA repair, microenvironment regulators, and therapy resistance, among others. Partnership with Alberta Health Services, including the Cross Cancer Institute Clinical Trial Unit (with the highest per capita accrual in Canada), accelerates reciprocal bench to bedside translational research. The University of Alberta is a Top 5 Canadian University and one of the Top 150 in the world. Key strengths and strategic areas identified by the University include precision health, artificial intelligence, and biotech.

Working for the University of Alberta

The University of Alberta acknowledges that we are located on Treaty 6 territory, and respects the histories, languages and cultures of First Nations, Métis, Inuit and all First Peoples of Canada, whose presence continues to enrich our vibrant community.

The University of Alberta is teeming with change makers, community builders, and world shapers who lead with purpose each and every day. We are home to more than 40,000 students in 200+ undergraduate and 500+ graduate programs, over 13,000 faculty and staff, more than 300,000 alumni worldwide and have been recognized as one of Canada's Greenest Employers for over a decade.

Your work will have a meaningful influence on a fascinating cross section of people—from our students and stakeholders, to our renowned researchers and innovators who are quite literally curing diseases, making discoveries and generating solutions that make the world healthier, safer, stronger, and more just.

How to Apply

Please click on the Apply Online link below and submit the following:

- Cover letter
- Curriculum vitae (CV)
- References, the names and contact information for three (3) referees
- List of Publications, including links (as applicable)



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- Teaching dossier that includes a brief teaching philosophy (maximum 750 words) and evidence of teaching effectiveness (submit as an attachment under "Statement of Teaching/Research Interests")
- Research statement that outlines main areas of research and future plans (maximum 750 words; submit under "Research Plan")

To assist the University in complying with mandatory reporting requirements of the Immigration and Refugee Protection Act (R203(3)(e)), please include the first digit of your Canadian Social Insurance Number in your application. If you do not have a Canadian Social Insurance number, please indicate this in your application.

While the position will remain open until filled, the review of applications will begin April 11, 2023.

Apply online:

<https://www.careers.ualberta.ca/Competition/A100149531/>

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered. The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.