Thesis Defense Seminars

**BISI** PhD Final Seminar: “Biochemical and cellular studies of isoprenoid metabolism in lettuce” by Connor Hodgins (Supervisor: Dr. Dae-Kyun Ro) on **Tuesday, November 8 at 12:00pm** on Zoom. Please contact the Biological Sciences Department for zoom details (biosci@ucalgary.ca)

**BISI** MSc Final Seminar: “From genomic data to metabolism of an uncultured thermophilic bacterium S2R-29 and a hydrocarbon degrader Solimonas aquatica” by Triet Tran (Supervisor: Dr. Peter Dunfield) on **Tuesday, November 8 at 3:00pm** in BL211 and on Zoom. Please contact the Biological Sciences Department for zoom details (biosci@ucalgary.ca)

**GEOS** MSc Final Seminar: “Geochemical fingerprinting approaches to determine the origin of fluids produced from Duvernay Formation wells in west-central Alberta, Canada” by Kevin Grimeau (Supervisor: Dr. Bernhard Mayer) on **Friday, November 18 at 9:00am** in ES136.

**GEOS** MSc Final Seminar: “Bayesian estimation of nonlinear centroid moment tensors using multiple seismic data sets in the Kiskatinaw Seismic Monitoring and Mitigation Area” by Madhi Hamidbeygy (Supervisor: Dr. Jan Dettmer) on **Wednesday, November 30 at 9:00am** on Zoom. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

Seminars & Events

**GEOS** Gallagher Visiting Scientist “Roles of aseismic and fluid-driven processes in crustal earthquakes – insights from induced and natural seismicity” Xiaowei Chen (Department of Geology & Geophysics, Texas A&M University) **Tuesday, November 8, 2022 at 4:00pm** in ES136.

**GEOS** GOLD (Geoscience Open Lunch Discussion) seminar “Interference free trace element and isotope analysis through collision-reaction cell ICP-MS/MS technology” Chris Laureijs (Department of Geoscience, University of Calgary) **Wednesday, November 9, 2022 at 12:00pm** on Zoom. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**MTST** Fall 2022 Lunch at the Mathematical and Computational Finance Laboratory (MCFL) “(Affine GARCH option pricing models, stochastic interest rates, and diffusion limits” Zhouzhou Gu (Department of Mathematics and Statistics, University of Calgary) **Tuesday, November 15, 2022 at 12:00pm** in MS569.

???? The One Health Research Symposium at the 2022 RSC Celebration of Excellence and Engagement (COEE). Thursday, November 24, 2022, 9:00 a.m – 3:00 p.m. Macleod Hall, Telus Convention Centre

Register by Wednesday, November 16, 2022. This event is free for UCalgary faculty, staff and students. Please email sci.ad.admin@ucalgary.ca for more information on how to attend.

Opportunities

2023 Genome Canada Cross Cutting Programs: Knowledge Mobilization and Implementation Coordination (KMIC) Hub and Data Coordination and Collaboration (Data) Hub
In response to the challenge of climate change, Genome aims to support strategic investments in Climate-Smart Agriculture and Food Systems. This large-scale initiative began with a call in summer 2022 to create Interdisciplinary Challenge Teams (ICTs), registration for which closed in September 2022. Funded ICT projects will be supported, coordinated and connected through two cross-cutting programs designed to ensure that the portfolio of ICT projects translate into solutions for Canadians. Genome Canada has now launched its call for participation in two national hubs:

1. A Knowledge Mobilization and Implementation Coordination Hub (KMIC Hub), to coordinate knowledge mobilization strategies across the ICTs and support portfolio-level “GE3LS” research and genomics in society activities for knowledge mobilization and implementation; and
2. A Data Coordination and Collaboration Hub (Data Hub), to coordinate data assets, standards and analytics across ICTs.

Note: Detailed registration and application processes for these opportunities, including timelines, remain under development by Genome Canada.

Interested parties are asked to contact Georgia Balsevich at Genome Alberta (gbalsevich@genomealberta.ca), cc’ing Research Services (ipd@ucalgary.ca), as soon as possible to ensure deadlines and other updates can be shared. Additional information regarding the competition and submission process can be found here.

**NSERC-CNSC Small Modular Reactors Research Grant Initiative**

The Canadian Nuclear Safety Commission (CNSC) regulates the use of nuclear energy and materials to protect health, safety, security, and the environment; to implement Canada’s international commitments on the peaceful use of nuclear energy; and to disseminate objective scientific, technical and regulatory information to the public. The NSERC-CNSC Small Modular Reactors Research Grant Initiative is intended to support activities that will:

- Increase the scientific information available to support regulatory decision-making and oversight
- Increase capacity to regulate SMRs
- Enhance the capabilities of Canadian universities to undertake research related to SMRs
- Increase training and help produce a new generation of nuclear scientists, engineers and policy-makers.

Research proposals must address one or more of the specific research challenges and knowledge gaps mentioned here.

**RSO Internal Deadline:** December 8, 2022, 12:00 PM MT.

**RSO Contact:** Alisha Kadam

**NSERC CREATE** program supports the training and mentoring of teams of highly qualified students and postdoctoral fellows from Canada and abroad through the development of innovative training programs. Faculty members who would like to participate in the 2023 competition must submit an internal Notice of Intent to Rhian Gunn (Research Facilitator) by January 10, 2023 for review before submission to RSO.

**Reminder: Test Your Concept Sessions – NSERC CREATE SUPPORT Committees** are hosting TYC sessions to engage with researchers interested in applying for major funding competitions and to provide feedback and guidance early in the development process. Any faculty members interested in receiving feedback on a research proposal are encouraged to participate. RSVP to ipd@ucalgary.ca by the deadline below and to receive a TYC template.

**Deadline to confirm interest:** November 8 by 9am

**Date of session:** November 22, 2-4pm

**Reminder: ERA: Clean Energy Transition Partnership** is now open for applications. This is a transnational initiative. Project proposals require a project consortium consisting of at least three eligible
applicants from at least three separate countries/regions participating. **RSO LOI Deadline: November 18 at noon.** Visit [the website](#) for details.

**Reminder: Natural Resources Canada: Clean Fuels Fund – Establishing Biomass Supply Chains**

The Establishing Biomass Supply Chains component includes three different project streams:
- Non-Indigenous Projects (Stream 1)
- Meaningful Indigenous-led Projects Stream (Stream 2)
- Majority Indigenous-led Projects Stream (Stream 3)

Each stream has separate eligibility criteria, different submission timing, different funding levels and contribution repayment requirements. Please see the [program guide here](#), and the [applicant form here](#).

**RSO Internal Deadline: November 18 at noon**

RSO Contact: Tempest Emery

**Reminder: MITACS Globalink Research Award (GRA) Thematic Call** for applications is now open. The GRA application package is available online. **Deadline November 25, 2022 at 3PM MT.**

**Reminder: UCalgary International Researcher Partnership Workshop Grant** 6 grants of $10,000 each are available from UC International to support partnership workshops for researchers at two or more international institutions to identify, initiate, or advance new projects and funding opportunities. Funding supports two workshops – one at UCalgary and one at the international partner institution. Application deadline: **November 30, 2022 4:30pm**. Contact [Heather Clitheroe](#) for assistance in preparing applications. Details and application available online.

**Reminder: Alberta Conservation Association (ACA) Research Grants** now accepting applications for the 2023/2024 funding year. Projects should focus wildlife, fish and habitat which inform the effective management of wildlife, fish populations, and habitat in Alberta carried out by professional researchers. To learn more visit [ACA Research Grants](#). Application Deadline: **December 1, 2022.**

**Reminder: Courage to Act** is developing resources to ensure post-secondary students are safe from sexual harassment in their experiential learning placements. Students, recent graduates, staff, and faculty across Canada, they want to hear from you! You’re invited to contribute to their national survey: [https://www.couragetoact.ca/elp](https://www.couragetoact.ca/elp) before the closing date of **December 2, 2022.**

**Reminder: Weston Family Foundation Homegrown Innovation Challenge**

In a climate-changing world, Canada’s high dependence on imported fresh fruits and vegetables make it vulnerable to food systems disruption. By solving the interconnected challenges that currently prevent out-of-season production at scale, the Homegrown Innovation Challenge will catalyze a range of solutions relevant to a broad array of fruit and vegetable crops in Canada and around the world.

**Shepherd Phase - Due December 20, 2022**

The top 10 innovation teams selected by an independent judging panel will be awarded up to $1 million each across an 18 month period to develop and demonstrate a small-scale proof of concept of their system, generating evidence and learning to be assessed for progression to the Scaling Phase. Solutions should be reaching **Technology Readiness Level 5** or higher by the end of the Shepherd Phase (when being submitted to the Scaling Phase).

- Amount: up to $1 million for 18 months
- **RSO Internal Deadline: December 15, 2022 at noon**
For more information please contact Stephanie Patrick

Reminder: Wise Planet strives to create a diverse, inclusive, equitable and just society by training women and other underrepresented groups in STEM to be change leaders equipped to address the major, shared challenges our societies face. Now accepting applications for Cohort 3. To learn more about the program please contact Ariane Cantin and Thuntida Ngamkham. Nominations will come from the Dean. Interested applicants should indicate their interest to scidean@ucalgary.ca prior to the application deadline November 14, 2022.

The IMU Committee for Women in Mathematics (CWM) invites proposals for funding of up to €3000 for activities or initiatives taking place in 2023, with deadline 23 December, 2022.

Proposals should aim at establishing or supporting networks for women in mathematics, and/or organizing research workshops (fostering women collaborations), and/or other ideas for researching and/or addressing issues encountered by women in mathematics. See attached information

Opportunities – Awards

For any award, including those listed below, if you are planning on submitting a nomination for yourself or someone else, and would like support in developing the nomination package, please contact Danielle Demiantschuk as early as possible. Other opportunities can be found on the FOS awards site, and in the RSO awards database.

Traditional Fulbright Scholar Awards: These awards are open to Canadian scholars in all fields, enabling them to conduct research, teach, or undertake a combination of both activities for one semester or a full academic year in the United States. Details here. Deadline: November 15, 2022.

Governor General’s Innovation Awards To be competitive for these awards, nominated innovators must be 30 years or younger, truly exceptional, transformative, and positive in their impact on the quality of life in Canada. Details here. Deadline: November 18, 2022.

NSERC Awards for Science Promotion recognize individuals and groups who are inspirational in the way they promote science to the general public. Details here. Deadline November 25, 2022.

UCalgary Equity, Diversity and Inclusion Awards: Celebrate inspiring students, faculty, postdoctoral scholars, staff and collaborative teams working to advance a more accessible, equitable, diverse, and inclusive university. Details here. Deadline: November 30, 2022 (updated deadline).

Calgary Awards, offered by the City of Calgary, celebrate and recognize outstanding achievements and contributions made by Calgarians. There are four main categories of awards. The next round will open on January 4th. Details here. Deadline: February 1, 2023.

Reminder: Killam Annual Professor Awards – recognize five faculty members who have demonstrated excellence in research, teaching, and service. Each award carries $10,000. Details here. Deadline: December 15, 2022

Reminder: Killam Visiting Scholar Award – provides sponsorship ($50,000) of a distinguished scholar who will make significant contributions to academic life at the UofC through a visit during the winter or fall term (2022-2023) Details here. Deadline: December 15, 2022
Opportunities – Health Sciences

**CIHR: Joint Canada-Israel Health Research Program** seeks to support cutting-edge research in the biomedical sciences and global health. This second call for proposals under Phase II is directed toward applicants conducting research in the broad area of Communicable Diseases while strengthening capacity in Canada, Israel and in low- and middle-income countries (LMIC).

- Registration with CIHR via ResearchNet must be done by January 17, 2023
- Research Services’ final internal deadline for the full application is **noon on Monday, February 13, 2023**

**Contact:** Lindsey Hritzuk

**CIHR Operating Grant: Evaluation of population-level interventions to reduce AMR** will support research evaluating domestic or international population-level interventions to reduce inappropriate antimicrobial use and prevent the spread of resistant pathogens in humans, animals and the environment. Careful study of population-level solutions including regulatory, guideline, communication, legislation, service provision, environmental/social planning and fiscal interventions will contribute to building a body of evidence to support Canadian and international AMR decision-makers as they address the multi-faceted challenge of AMR. This funding opportunity will support projects evaluating domestic or international population-level interventions to reduce inappropriate antimicrobial use and prevent the spread of resistant pathogens in humans, animals and the environment. Research Services’ final internal deadline for the full application is **noon on Monday, January 30, 2023**

**Crohn’s and Colitis Innovations in IBD Research** This grant is intended to stimulate and support research which may not be encompassed within the boundaries of traditional medical research.

- Amount: $50,000 for one year
- RSO Internal Deadline: **November 25, 2022 at noon**

For more information please contact Stephanie Patrick

**Reminder: CIHR Operating Grant: Canadian Post COVID-19 Condition Research Network**

This funding opportunity is part of the Government of Canada's continued response to address the health challenges of the COVID-19 pandemic. This funding opportunity is focused on research associated with the long-term effects of COVID-19 infections (aka: COVID long-haul, long COVID, and in this document post COVID-19 condition) on Canadians' health and health systems.

- Registration with CIHR via ResearchNet must be done by November 2, 2022
- Research Services’ final internal deadline for the full application is **noon on Friday, November 18, 2022**

**RSO Contact:** Lindsey Hritzuk

**Reminder: Alberta Innovates LevMax-Health Program Fall 2022**

The LevMax-Health Program specifically leverages high-quality, Alberta-based applications from Tri-agency competitions (NSERC, SSHRC, CIHR) with strong potential to advance Digital Health research and innovation in Alberta. This specific funding opportunity has four thematic areas for consideration: talent; research; commercialization; health system transformation.

LevMax-Health Program objectives are to: support research and innovation clients in Alberta to advance Digital Health; leverage partner relationships to advance Digital Health innovation in Alberta; and increase the number of projects using real-world data to develop Digital Health technologies.
Potential applicants must have applied to a Tri-agency competition in the period between April 1, 2022 to September 30, 2022 and met eligibility but have been deemed unsuccessful.

**RSO Internal Deadline: November 15, 2022 at noon**

**RSO Contact:** Katie Cupello.

**Reminder: Banting Research Foundation Discovery Award**

The Discovery Award is a one-year grant of up to $30,000 for innovative health and biomedical research projects by outstanding new investigators at universities and research institutes in Canada, who are within the first three years of their first academic appointment and who have received less than $200,000 as part of their start-up package. The intent is to provide seed funding so that applicants can gather pilot data to enhance their competitiveness for other sources of funding.

A Notice of Intent (NOI) is required by the agency and due on **December 1, 2022**.

- A department head will be permitted to nominate only one potential applicant. In the case of non-departmentalized Faculties, only one nomination can go forward from the Faculty.
- The applicant must acknowledge that the plan to submit a proposal has been discussed with the respective Department Chair / Head at the time of submitting a NOI.

As the department/division head may nominate only one applicant during each annual granting cycle, departments or the Faculty (for non-departmentalized Faculties) should contact Anna LeMarquand by December 1, 2022 to advise that a NOI is going forward to the agency. The intent of this notice is to ensure that no more than one application is put forward per department/division.

Research Services final internal deadline for the full application is **noon on January 19, 2023**.

**Opportunities – Social Sciences**

**SSHRC: Partnership Grants – Call For Proposals**

Partnership Grants provide support for formal partnerships that advance research, research training and/or knowledge mobilization in the social sciences and humanities through mutual co-operation and sharing of intellectual leadership, as well as through resources as demonstrated by cash and/or in-kind contributions. Faculty members who would like to participate in the 2023 competition must inform RSO of their intent to apply (ipd@ucalgary.ca) and provide a completed internal Notice of Intent (iNOI template attached) for the proposed project by November 10, 2022.

**Opportunities – Postdocs and Graduate**

**CIHR Summer Program in Aging (SPA) 2023** is an intensive 5-day capacity-building program with the aim of providing graduate trainees with advanced training that crosses disciplines, offers networking opportunities, and disseminates best practices in research. SPA has been held yearly across Canada since 2006 on a different strategic theme each year. The program brings together up to 40 research trainees and numerous academic mentors to participate in interactive learning sessions over the course of one week. The strategic theme for SPA 2023 will be Longer-living older adults: Multidisciplinary approaches to a growing area of research on aging.

**RSO Final Internal Deadline (Full Application): Monday, November 21, 2022, at 12:00 PM**

Contact: postdoc@ucalgary.ca

**Canadian Water Resources Association (CWRA)** has a number of Graduate scholarship opportunities available. One application per University Department is allowed, so please liaise with your Department Head prior to submitting your application. For more information visit the CWRA website. Application deadline is **January 31, 2023**.
Reminder: Polar Knowledge Canada’s Northern Scientific Training Program (NSTP) supports graduate student research in the circumpolar north. Now accepting applications for the 2023-24 field season. Application deadline November 10, 2022. Visit the Arctic Institute of North America website for more information.

Reminder: Ivan Finlay Leadership Award recognizes students who have effected positive change while in volunteer leadership role(s) in either campus organizations or community organizations. There are up to six awards available for the 2022 award period, each with a prize of $1,000. Details here. Deadline: November 20, 2022.

Congratulations!

To the following Eyes High Postdoctoral Match-Funding Program scholars who have joined the University of Calgary:

- Dr. Mahdi Dolati, Department of Computer Science (supervisor: Dr. Majid Ghaderi)
- Dr. Aram Fathian Baneh, Department of Geoscience (supervisor: Dr. Dan Shugar)
- Dr. Arthi Gopalakrishnan, Department of Geoscience (supervisor: Dr. Benjamin Tutulo)
- Dr. Vishnu Surendran, Department of Chemistry (supervisor: Dr. Venkataraman Thangadurai)
- Dr. Majid Taghavi Dehaghani, Department of Physics & Astronomy (supervisor: Dr. Shabir Barzanjeh)

Did You Know?

IT maintenance window will occur from Nov. 11 until Nov. 13 affecting all IT services. During this time there will be intermittent shutdowns of all IT Services, UCalgary websites and Internet access.

Any additional system impacts will be communicated through the IT Twitter account @UCalgary_IT

Prior to leaving at the end of the day on Nov. 10, please ensure that you have logged out of any UCalgary systems. For more information visit the IT Scheduled Maintenance page

2022/2023 Annual Compliance Certificate due by December 5, 2022. All project holders of externally and internally restricted funds at the University of Calgary are required to complete this on-line certificate.

For more information on the process, please refer to the FAQ document. To assist you with the completion of the certificate, a Summary of Changes document outlining a list of policy changes/updates over the past year is available. As in the past year, the certificate will be completed on-line and can be accessed through the Research tab on your My U of C portal.

The Faculty of Science 2022 United Way Campaign is underway. You have the chance to visit the mountain islands…come to Cozy Island, Wonders of Fermentation Island, or Treasure Island for your chance to win! You can find more details here.
W2023 Special Topics Courses for Science Grad students

**CPSC 601.30 High Performance Scientific Computing and Visualization** will be offered (Tu-Th 9:30 – 10:45, ST 057). A CPSC course that is open to anyone who knows how to program in C/C++. Modern scientific computing and data science workflows are increasingly relying on the capabilities of parallel and distributed computing architectures for high performance. This course will introduce students to data management principles and programming paradigms that are central to these workflows. Students will be exposed to multithreading in C++, GPGPU computing with CUDA, and programming distributed memory architectures via the Message Passing Interface (MPI). The focus will be on the use of these technologies to accelerate the performance of core techniques and to handle large datasets. Use cases will be drawn from various areas such as numerical linear algebra, image processing, machine learning, computer graphics, and data visualization. Additionally, students will be able to explore their own domain of interest via case studies and a term project. For more information please contact Usman Alim.

**SCIE 507.33 Emerging Technologies and Entrepreneurial Thinking in Evolving Energy Systems** will be offered (Tu 2:00 – 4:45 pm, ENF 334). Open to graduate students in any program in the Faculty of Science. For more information please contact David Eaton.

**GEOP 699.01 Global Seismology** will be offered (Tu-Th 11:00-12:15). In addition to geophysics grad students with an interest in seismology, this course may be of interest to mathematically-inclined geology grad students who have an interest in earthquakes and/or the Earth’s deep interior. For more information please contact David Eaton.

Science Research and Innovation Newsletter (SRIN) comes out every Monday afternoon. If you have a seminar notice, congratulations or awards for the newsletter please submit it by noon on Friday to sci.borg@ucalgary.ca to ensure it is added.