Thesis Defense Seminars

**BISI** PhD Final Seminar “Thermotransduction in Pseudomonas aeruginosa” by Trevor Randall (Supervisor: Joe Jonathan Harrison) on **Thursday, December 2, 2021, at 5pm**. Please contact supervisor for zoom details.

**GEOS** MSc Final Seminar “Delineating the Shallow Free-phase Gas Distribution at an Abandoned Exploration Well, Crystal Geyser” by Patrick Lagasca (Supervisor: Cathy Ryan) on **Friday, December 3, 2021, at 9:00am**. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**CHEM** PhD Final Seminar “A Monoanionic, Borate-Based Pentadentate Ligand Platform for Scandium-Element Multiple Bonds” by Evan Patrick (Supervisor: Warren Piers) on **Friday, December 3, 2021, at 3pm**. Please contact the Chemistry Department for zoom details (chem.info@ucalgary.ca)

**CHEM** MSc Final Seminar “Probing the Bioinorganic Chemistry of Methylmercury in Mammalian Blood Plasma” by Tristen Bridle (Supervisor: Jurgen Gailer) on **Monday, December 6, 2021, from 12:30 to 1:30pm**. Please contact the supervisor for zoom details.

**CHEM** MSc Final Seminar “The formation of supported lipid bilayers on nanoparticles as tools to further explore plasmonic properties” by Shauna Schectel (Supervisor: Belinda Heyne) on **Thursday, December 9, 2021, 9:00-10:00am**. Please contact supervisor for zoom details.

**GEOS** MSc Final Seminar “Evaluating the Effectiveness of Bioretention Systems for Managed Aquifer Recharge in Cold Climates” By Glenn Hall (Supervisor: Edwin Cey) on **Thursday, December 9, 2021, at 9:00am**. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**BISI** PhD Final Seminar “The invasion process of the European strain of Echinococcus multilocularis in Western Canada” by Maria Santa (Supervisor: Marco Musiani & Kathreen E Ruckstuhl) on **Friday, December 10, 2021, at 8:30am**. Please contact supervisor for zoom details.

**PHAS** MSc Final Seminar “Study of the Broadband X-ray Lightcurves of Hercules X-1/HZ Hercules” by Yuyang Wang (Supervisor: Denis Alan Leahy) on **Tuesday, December 14, 2021, at 10:00am**. Please contact the Physics and Astronomy Department for zoom details (phasooffice@ucalgary.ca)
CHEM PhD Final Seminar “Exploring Sulfur Recovery in a Eutectic Mixture of Biphenyl and Diphenyl Ether” by Rohen Prinsloo (Supervisor: Robert Marriott) on Tuesday, December 21, 2021, from 2:00-3:00pm. Please contact the Chemistry Department for zoom details (chem.info@ucalgary.ca)

Seminars

GEOS G.O.L.D. meeting “Geothermal potential of large transform faults in Yukon” by Dr. Jan Dettmer (UofC) on Wednesday, December 1, 2021, at noon. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

FoS EDI Coffee Chat- The second Equity, Diversity and Inclusion coffee chat is on Thursday, December 2, 2021, from 10:00 to 11:00am. Everyone is welcome! We will discuss the attached article “How to Unlearn Racism” which discusses some thought-provoking research on systemic racism and why implicit bias training is often not enough. The article is attached as a PDF. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

MTST Colloquium Series 2021-2022 presents “Class Groups of Quadratic Fields” by Dr. Mike Jacobson (University of Calgary) on Thursday, December 2, 2021, at 2:00pm. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

GEOS Geoscience Education Reading Group (GERG) discussion on Thursday, December 2, 2021, from 2:00-3:00pm. “Back to Campus: Which Online Elements to Keep when Going Back into the Classroom” discussion is open to all faculty. With the push to have classes back on campus many instructors are wondering if everything should go back to the pre-covid teaching styles or if it is time to update the on-campus classroom. This session will brainstorm the aspects of online teaching that worked well and consider online learning tools and techniques that will aid student learning on and off campus. For more information please contact Jennifer Cuthbertson (cuthberj@ucalgary.ca).

Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

MTST SAGE/Biostats Seminar series “DAGBagM: Learning directed acyclic graphs of mixed variables with an application to identify protein biomarkers for treatment response in ovarian cancer” by Dr. Pei Wang (Icahn School of Medicine at Mount Sinai) on Friday, December 3, 2021, at 4:00pm. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

GEOS 2021 Tom Oliver Lecture series “Environments for the Origin of Life on Early Earth and Elsewhere” by Dr. David C. Catling (University of Washington) on Friday, December 3, 2021, at 3:00pm. To Register click here.

CHEM Visiting Speaker Series: “Catalysts on Santa’s List: Are They Naughty or Nice?” by Professor Fran Kerton (Department of Chemistry, Memorial University) On Friday December 8, 2021, at 1:00pm. Please contact the Chemistry Department for zoom details (chem.info@ucalgary.ca)

MTST Eric Milner Scholarship Lecture presents “Power analysis of transcriptome-wide association study: Implications for practical protocol choice” by Bowei Ding (University of Calgary). Thursday, December 2, 2021, 3:00pm. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

MTST Mathematical and Computational Finance Laboratory (MCFL) presents “Stochastic Optimal Control Problems in Limit Order Books for General Compound Hawkes Process” by Ana Karen Roldan Contreras (University of Calgary) on Tuesday, December 7, 2021, at 12:00pm. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)
MTST CalgaryR presents “Introduction to Shiny App in R” by David Aponte, PhD candidate in medical science at the University of Calgary. Shiny is an R framework for interacting with data through a web app. On Wednesday, December 8, 2021, at 5:30pm. RSVP at https://www.meetup.com/calgaryr/events/282151176/

CHEM UCalgary NSERC CREATE ME2 Team presents Electrochemical Conversion of CO2 to Green Fuels and Products Workshop on Thursday, December 9, 2021, from 8:30AM to 3:30PM. For details, itinerary or to register for this free online workshop please click here.

Opportunities

NSERC Idea to Innovation (I2I) grants seek to accelerate the pre-competitive development of promising technology originating from the university and college sector and promote its transfer to a new or established Canadian company. Please visit NSERC’s site for full I2I program information for the coming year. There are four intake points throughout the year. For the January* intake, please review our funding calendar entry for the internal submission process, requirements, and deadlines.

*NOTE: As this January I2I competition directly follows the holiday break, we strongly encourage researchers to initiate the RMS approval process in December and to contact RSO and Innovate Calgary early in their planning and development of their application.

Contact: Alisha Kadam

IN-PART Global Challenge: Seeking research and innovation relating to sustainable plastics, polymers, and alternatives. Please view: (1) Challenge Submission Guidelines, (2) Challenge Descriptions from some companies, and (3) a Royal Society of Chemistry document identifying opportunities in polymers in liquid formulations.

Potential applicants are asked to connect with Puneet Mannan at Innovate Calgary before December 10 for application/submission assistance.

REMINDER: Alberta Innovates - BioFibre The Building With BioFibre funding call is targeted at advancing emerging technologies that utilize Alberta’s plentiful forest and/or agricultural fibre, and encourage their use in green construction to support economic development of the bioindustrial sector.

Research Services full application deadline December 15 at 12:00pm. Contact: Caitlin Janzen

REMINDER: NSERC Collaborative and Research Training Experience (CREATE) Info Session

A reminder that an information session for researchers interested in learning more about the Collaborative Research and Training Experience (CREATE) 2022 will be held via Zoom on Tuesday, November 30 from 10:30 – 11:30 a.m. The session will be hosted by Dr. André Buret, Associate Vice-President (Research), with people who have experience leading or participating in funded CREATE training programs, and representatives from Research Services. The session will offer an overview of the NSERC CREATE 2022 funding opportunity, and advice and tips for developing a proposal based on the experience of past applicants, NSERC reviewers and recommendations from the funder. The presentation will be followed by time for questions. Everyone is welcome. To join this session, please email ipd@ucalgary.ca to register by Monday, November 29.

UCalgary International: International Research Partnership Workshop Grants are for a research/collab partnership between faculty members at two universities. The grants ($10K max) support meetings to explore, identify, and implement joint research interests and projects between April 2022 and March 2024. Application Deadline: January 5, 2022 at 4:30PM (with adjudication complete by mid-Feb). Details available here. For assistance in applying, please contact Heather Clitheroe.

REMINDER: Mitacs Elevate & Mitacs Elevate (Thematic) - a two-year training program for postdoctoral fellows (PDFs), where participants lead and undertake a research project with an industry partner. Open to all
disciplines and all industry sectors. **Mitacs Elevate Award:** $55,000 per year and **Thematic Award:** $70,000 per year if the project addresses at least one of the key priority sectors of artificial intelligence, biomanufacturing, clean tech, or quantum science. **RSO Final Internal Deadline (Full Application):** Friday, January 14, 2022 at noon. More information in the [Funding Deadline Calendar](#).

**Calgary Awards-call for nominations:** Offered by the City of Calgary, celebrate and recognize outstanding achievements and contributions made by Calgarians. Last year there were four major categories which included: The Award for Accessibility; The Community Achievement Awards; The Environmental Achievement Award; The International Achievement Award. Next rounds nominations will be accepted from **January 5 to February 9, 2022.** Please note that this internal call is being circulated in advance of the City of Calgary’s call for nominations, which will be released in January 2022. Further information on this awards suite will be communicated in early January when the City of Calgary begins to accept nominations. Please contact [Danielle Demiantschuk](mailto:Danielle.Demiantschuk@calgary.ca) if you have any questions or would like assistance in preparing a nomination.

### Opportunities – Health

**CHS-Bayer Advance Canada Research Program**

Recognizing the importance of how age-related diseases might affect people with hemophilia, this research program’s goal is to support research that will help inform how management and treatment should best be adapted for people ageing with hemophilia.

The research program will support studies that aim to:

- Identify and provide insight into key issues associated with the ageing hemophilia population
- Identify how management of age-related co-morbidities should be adapted to those with hemophilia
- Create and deliver evidence-based information to health care practitioners (HCPs), the public and policy makers that will lead to improved care and QoL for older Canadians living with hemophilia

**Amount:** $60,000 for one year  
**RSO Deadline:** December 7, 2021 at 12:00pm  
For more information, please contact [Stephanie Patrick](mailto:Stephanie.Patrick@calgary.ca)

**Crohn’s and Colitis Canada Innovations in IBD Research**

Crohn’s and Colitis Canada invites applications for an Innovations Grant, to fund novel or innovative approaches to IBD research. This grant is intended to stimulate and support research which may not be encompassed within the boundaries of traditional medical research. Research proposals must conform to sound principles of research and may aim to collect pilot data for follow-on application(s). Our organization seeks mission relevance and excellence as well as innovation.

**Amount:** $50,000 for one year  
**RSO Deadline:** Jan 12, 2022 at noon  
For more information, please contact [Stephanie Patrick](mailto:Stephanie.Patrick@calgary.ca)

**CIHR: Planning and Dissemination Grants – ICS (Winter 2022)**

The Planning and Dissemination Grants are intended to provide support for planning and/or dissemination activities (either virtual or in-person) consistent with the mandate of CIHR and relevant to CIHR Institutes and Initiatives. Each of the participating Institutes and Initiatives has tailored this funding opportunity to meet the needs of their respective communities. This funding opportunity is not intended to support the direct cost of research (e.g., pilot projects, feasibility studies or operating grants), principal and co-investigator salaries or research equipment. Primary research or primary data collection will not be supported through this funding opportunity. Any activity that may be perceived as such should be justified.

Research Services’ final internal deadline for the full application is **noon on January 13, 2021.**

Contact: [Lindsey Hritzuk](mailto:Lindsey.Hritzuk@calgary.ca)
CIHR Team Grant: Healthy Life Trajectories Initiative (HeLTI) - China
The purpose of this funding opportunity is to fund the Canadian component of the Canada–China Healthy Life Trajectories Initiative (HeLTI) Cohort Team. The HeLTI Linked International Intervention Cohorts (LIICs) is a collaboration of participating countries that co-fund activities with CIHR through LIICs focused on risk factors for NCDs based on the developmental origins of health and disease (DOHaD) approach. Due to the deliberate coordination and co-funding of these LIICs, this initiative allows for accelerated learning and impact within and across countries through methodological advances, common measures, and data harmonization, as well as enhanced understanding of the results and their implications across contexts. The corresponding Chinese team must have a solid working foundation in NCD epidemiology cohort research and have good cooperative records with Canadian collaborators. This team will be selected by NSFC as per their requirements and processes.
Research Services’ final internal deadline for the full application is noon on November 29, 2021.
Contact: Lindsey Hritzuk

Opportunities – Social Sciences

Civil Society Fund
Organizations can apply for a one-time grant to support an effective and sustainable social recovery and inclusive economic participation by building civil society’s capacity to address social challenges impacting Albertans. Post-secondary institution applicants are encouraged to partner with community-based civil society organizations.
For applicants wishing to submit applications, an internal Notice of Intent (iNOI) should be submitted to Research Services (asamuels@ucalgary.ca) by noon on December 6, 2021.
• The submission of an internal Notice of Intent to Research Services will allow applicants to be provided with the institutional information that is required for the application submission.
For the iNOI stage, all that is required is:
1. Principal Investigator’s name
2. Faculty and Department
3. Project Title
All applications for this program should be sent to the Research Services Office, including non-research projects, to provide a single institutional point of contact and approval.
Research Services’ final internal deadline for the full application is noon on December 15. For more information, see the Funding Deadline Calendar.
Contact: Anna LeMarquand

SSHRC Connection Grant Information Session
SSHRC Connection Grants support events and outreach activities geared toward short-term, targeted knowledge mobilization initiatives. These events and activities represent opportunities to exchange knowledge and to engage on research issues of value to those participating. Events and outreach activities funded by a Connection Grant may often serve as a first step toward more comprehensive and longer-term projects potentially eligible for funding through other SSHRC funding opportunities. Funding can be up to $25,000 for an event and up to $50,000 for an outreach activity.
Join us at RSO, along with Dr. Penny Pexman, Associate Vice-President (Research), on Tuesday December 7, 2021 from 11:00am to 12:00pm as we discuss applications to the 2022-2023 SSHRC Connection Grant Program (upcoming deadlines of February 1, May 1, and August 1, 2023). The session will provide a general overview of the program including submission processes and deadlines (RMS), tips and best practice advice, and a brief Q&A period.
Everyone is welcome. To join this session, please email RSO by December 6th to register. You will receive the Zoom link and password on the 6th.
During the meeting, please mute yourself and turn off your video. Questions can be sent in advance to RSO or asked in the chat box and the moderator will address them during the Q&A period.

Postdoctoral Opportunities

**Discovery Fund 2022 Talent Development Competition: Postdoctoral Fellowship**
The Discovery Fund is dedicated to finding innovative solutions to major challenges in the diagnosis, treatment and prevention of mental illness and improving outcomes for those affected, now and in the future.

**Award:** $65,000 per year for 1 or 2 years

**RSO Final Internal Deadline (Full Application):** Tuesday, February 15, 2022 at noon (12:00 p.m. MDT)

**Contact:** rsotrainee@ucalgary.ca

**womenmind 2022 Postdoctoral Fellowship Competition**

womenmind is a community of philanthropists and thought leaders committed to addressing the gender gap in mental health. The goals of womenmind are to promote excellence in research on women’s mental health and support women in the sciences, with the understanding that gender is fluid, non-binary and diverse – womenmind is a program for all women.

**Award:** $65,000 for 1 year, with possibility of 1-year extension

**RSO Final Internal Deadline (Full Application):** Tuesday, February 15, 2022 at noon (12:00 p.m. MDT)

**Contact:** rsotrainee@ucalgary.ca

**Azrieli Adult Neurodevelopmental Centre 2022 Postdoctoral Fellowship**
The Azrieli Adult Neurodevelopmental Centre is aligned with CAMH’s strategic goals of improving care for the patients of today and innovating care for the patients of tomorrow. It is intended to promote excellence in the field of adult neurodevelopmental disabilities (e.g., intellectual disability, autism) and mental health.

**Award:** $65,000 per year for 2 years, with possibility of renewal for a 3rd year

**RSO Final Internal Deadline (Full Application):** Tuesday, February 15, 2022 at noon (12:00 p.m. MDT)

**Contact:** rsotrainee@ucalgary.ca

**Health System Impact (HSI) Fellowship 2022**
The Health System Impact (HSI) Fellowship (for doctoral trainees and post-doctoral fellows) provides highly-qualified doctoral trainees and post-doctoral fellows studying health services and policy research (HSPR), or related fields, a unique opportunity to apply their research and analytic talents to critical challenges in health care that are being addressed by health system and related organizations (e.g., public, private for-profit, not-for-profit, and Indigenous health organizations that are not universities) outside of the traditional scholarly setting, and to also develop professional experience, new skills, and networks.

**Award:** $50,000 for 1 year, or $155,000 total for 2 years

**RSO Final Internal Deadline (Full Application):** Tuesday, February 18, 2022 at noon (12:00 p.m. MDT)

**Contact:** rsotrainee@ucalgary.ca

Graduate Students in Science

**Women in STEM- Scholarship and Persons Case Scholarship:**

The Persons Case Scholarship supports students of any gender studying in SSHRC fields whose work advances gender equality or who are studying in fields where their gender is under-represented or disadvantaged. Detailed
information about the Persons Case Scholarship, including the step-by-step guidelines on how to apply, can be found here: [www.alberta.ca/persons-case-scholarship.aspx](http://www.alberta.ca/persons-case-scholarship.aspx).

We encourage you to share the information about the Women in STEM Scholarship and Persons Case Scholarship with your network and encourage all eligible students to [apply by the deadline of December 31st, 2021](#).

**CSA Group Research Scholarship:**

The purpose of the CSA Group Graduate Scholarship is to support graduate students in the pursuit of knowledge generation related to standards. Graduate students at the Masters level studying at a publicly-funded, accredited Canadian university are eligible to apply.

The thesis can be conducted in any field (e.g. engineering, social sciences, health sciences) and must include standards as a component of the research. The topic does not need to be related to an area in which CSA Group already has standards. The research may investigate aspects of an existing standard or may explore an area for future standards development.

**Key Dates:**

- **Deadline to Apply:** March 31

**Value and Duration:**

- Awards are $10,000 per year; Award duration is a maximum of two years.

**Eligibility:** [https://www.csagroup.org/scholarship/](https://www.csagroup.org/scholarship/)

**IDRC Research Awards 2022-2023:**

This opportunity for IDRC Research Awards 2022-2023 funding is particularly relevant to PhD students. This year IDRC will offer research awards related to these development areas or themes: Climate-Resilient Food Systems, Democratic and Inclusive Governance, Education and Science, Ethics in Development Research, Global Health, Policy and Evaluation, and Sustainable Inclusive Economies.

If your proposal is selected, you will join IDRC as a Research Award Recipient for a period of 12 months from 1 May 2022 to 30 April 2023 with a salary in Canadian dollars between CA$42,033 to CA$48,659 to undertake research on the topic you have submitted. You will receive hands-on experience in research and program management and support, grant administration, and the creation, dissemination, and use of knowledge from an international perspective.

**Deadline:** February 1, 2022

**Eligibility and for more information** click [here](#).

**ThinkSwiss Research Awards:**

ThinkSwiss funding is available for undergraduate and graduate students to complete 2-3 month research placements at universities and research institutions in Switzerland, with placements beginning anytime between May 1 and December 1, 2022. Funding of approximately $2100/month is available, and can be stacked with other sources (including Mitacs Globalink Research Award funding). If you have colleagues in Switzerland, this can be a great opportunity for student research mobility next summer or fall. Please contact [Heather Clitheroe](#) if you have any questions or for assistance in developing an application.

**Deadline:** January 15, 2022. [https://thinkswiss.org/research-scholarship/](https://thinkswiss.org/research-scholarship/)

**CS Graduate Students: Participate in a survey for your chance to win a $25 Bookstore credit:**

Help us understand barriers and solutions for accessing experiential learning opportunities across campus. Experiential learning activities involve learning-by-doing – they can include co-ops, internships, research, capstone projects, case competitions, and more. [Learn more and participate](#).

**Operation Wallacea (Opwall): 2022 and 2023 Expeditions**

Operation Wallacea (Opwall) is an international biodiversity and climate research organization [www.opwall.com](http://www.opwall.com). For 25 years it has run biodiversity research expeditions in far-flung locations around the world. Each year,
thousands of high school and university students join our extensive team of academics to take part in remote fieldwork. Students walk away from their expeditions with a valuable toolkit of hands-on research skills, new connections, and the knowledge that they contributed to data sets leading to high impact publications and real conservation management strategies for local communities. Nearly 600 papers in peer-reviewed journals have been published from these research programs: opwall.com/research-library/.

Opwall has recently opened positions for our 2022 and 2023 expeditions. These expeditions are especially relevant to those studying biology, geography and environmental science – detailed information can be found on our website: opwall.com/in-field-experiences/.

Opwall is hosting a series of free virtual presentations to highlight the student-powered research model and ways students can get involved in our 2022/23 expeditions (all registration links are listed below or found at https://www.opwall.com/free-webinar/). These presentations are an excellent way to learn about field research in remote locations, success stories and challenges in conservation, as well as specific survey techniques, so they should be of interest to a wide variety of students.

**Did You Know?**

When graduate students and supervisors are booking pre-oral exam presentations (aka seminars, final presentations) they should submit any seminar (including zoom) details to scigrad.exams@ucalgary.ca for distribution in this newsletter.

*Please send any seminar notices or events to be included in the newsletter to sci.borg@ucalgary, subject line SRIN.*