Thesis Defense Seminars

**GEOS** MSc Final Seminar: “The effects of water-rock interactions on the permeability of the Precambrian Basement in Southern Saskatchewan” by Taylor Smith (Supervisor: Dr. Benjamin Tutolo) on **Tuesday, December 20, 2022 at 1:00pm** in ES 136.

**CMD** PhD Final Seminar: “The Teaching Game: Integrating HCI and SoTL By Adapting Video Game Research Methods” by D’Arcy Norman (Supervisor: Dr. Ehud Sharlin) on **Thursday, December 22, 2022 at 1:00pm** Hybrid in Taylor Institute - Room 110 or on Zoom. Please email sci.ad.admin@ucalgary.ca for zoom info.

**CPSC** PhD Final Seminar: “Coordinated Packet-Level Traffic Monitoring in Software-Defined Networks” by Sogand Sadrhaghighi (Supervisor: Dr. Majid Ghaderi) on **Wednesday, January 4, 2023 at 11:00 am** on Zoom. Please contact the Computer Science Department for zoom details (cpsc@ucalgary.ca).

Seminars & Events

**Faculty of Science** Post-docs and Graduate students are invited to a Lunch & Learn, “How to get started towards your own startup” **Tuesday, January 24, 2023 11:30 – 1:00pm**. In preparation, please watch [Capture Your Business Model in 20 minutes – Lean Canvas](https://example.com). Please **RSVP by January 10, 2023** to sci.ad.admin@ucalgary.ca with your name, email and any dietary restrictions.

**GEOS** You’re invited to [GeoConvention 2023](https://geoconvention.com/) in Calgary, Alberta from May 15th - 17th, 2023! Mark your calendars for the largest integrated earth science program in Canada! We are excited to host this in-person conference in beautiful downtown Calgary. For more info: [https://geoconvention.com/](https://geoconvention.com/) The **abstract submission deadline is January 20th, 2023** for more information visit [https://geoconvention.com/call-for-abstracts/](https://geoconvention.com/call-for-abstracts/) Students who volunteer 8 hours will be reimbursed for their admission while also meeting professionals, other students, and companies.

Opportunities

**Public Presentation Opportunity for Faculty: The Latest Research On...**

Knowledge Engagement has opened the call for faculty members to present at ‘The Latest Research On...’ (TRLO) for Winter 2023. TLRO is a public talk series hosted in partnership between the university’s Knowledge Engagement team and the Calgary Public Library.

All TRLO Talks must:
- Be timely and relevant
- Be accessible in language and presentation
- Increase awareness of UCalgary research
- Appeal to a general public audience

Faculty members can [submit their expressions of interest](https://example.com) to present an in-person talk for the Winter 2023 series before **January 8, 2023**. Postdoctoral researchers or graduate students are welcome to [co-present](https://example.com) with their supervisor – please ensure the faculty member’s name and contact information is used for the submission if this is the case. TLRO offers a limited number of sessions and is an opportunity to showcase the breadth of research at the university. If faculty member interest exceeds available spaces, speakers will be offered a spot based on content and availability. Questions can be directed to [knowledge.engagement@ucalgary.ca](mailto:knowledge.engagement@ucalgary.ca).

**NRCan: Multi-Partner Research Initiative (MPRI)** is a five year $20.3-million program that aims to advance Canada’s scientific knowledge and science-based decision making for [oil spill response](https://example.com) that minimizes the...
environmental impacts of spills in marine (offshore and near-shore), and onshore freshwater environments. Applications will be accepted under this open call until January 20, 2023. View competition details here.

**Research Services Office Internal deadline: 12:00pm MST, January 17, 2023**

RSO Contact: Chantal Lemire

**Reminder: Campus Alberta Small Business (CASBE) program Stream II** Alberta Innovates has launched the 2022-23 CASBE program with two new matching opportunities: 1. NSERC Alliance Quantum Grants, and 2. Approved NSERC Applied Research and Technology Partnership grants (ARTPs) that align with the Alberta Innovates CASBE requirements. Although this is a continuous intake program, potential applicants should submit their applications as soon as possible. RSO Contact: Katie Cupello

**Reminder: 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 December 23, 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.

**Reminder: 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: Request for Faculty of Science Conference or Event Sponsorship** request form is now open. If you are hosting an event or conference and would like to request support from the Faculty of Science, please fill out the online form at Request Conference-Event Support Deadline for the Winter term is: January 15, 2023.

**Reminder: Alberta Innovates Advance – NSERC Alliance 2022/2023 Stream II** will invest in projects in alignment with Alberta’s technology and innovation strategies. This stream is targeting the emerging technologies of Information and Communications Technologies (ICT) and Advanced Materials and Manufacturing Technologies (AAM). Individual proposals can request up to $150,000/year for 2 years. See here for further information. Applications will be accepted until March 31, 2023. Full applications for AI and NSERC must be submitted in RMS and approvals received at least 3 business days prior to desired date of submission. RSO Contact: Alisha Kadam

## 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.

**Volvo Environment Prizes:** The Prize recognizes excellence in all disciplines which have relevance to the environment and sustainability. The research of nominees should be based on scientific grounds but must clearly show impacts outside of the specific discipline. Details here, Deadline: January 10, 2023
**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.**

**Emerald Awards**, celebrate individuals who are addressing environmental and climate change issues in Alberta. There are fifteen categories. [Details here.](#) **Deadline: February 14, 2023.**

**Northern Science Award** (Polar Research Canada): The Northern Science Award is presented annually to an individual or a group who has made a significant contribution to meritorious knowledge and understanding of the Canadian North. [Details here.](#) **Deadline: January 31, 2023**

**Awards and Medals, Royal Society of Canada.** The RSC hosts over 20 prestigious awards in recognition of outstanding achievement. The next call will open in January. [Details here.](#) **Deadline March 31, 2023.**

**Opportunities – Health Sciences**

**2022 Future Leaders in Canadian Brain Research** aims to accelerate novel and transformative research that will fundamentally change our understanding of nervous system function and dysfunction and their impact on health. The ultimate goal is to reduce the social and economic burden of neurological and mental health illnesses through prevention, early diagnosis, and treatment. Open to early-career investigators within five years of starting their first independent research position. [Research Services Office Internal Pre-Application Deadline: January 11, 2023 - 12:00 PM](#)  
RSO Contact: Chantal Lemire

**Cancer Research Institute: 2023 Clinic and Laboratory Integration Program (CLIP)** supports preclinical and translational research that can be directly applied to optimizing cancer immunotherapy in the clinic. CLIP grants are awarded to qualified scientists exploring clinically relevant questions aimed at improving the effectiveness of cancer immunotherapies. This call provides dedicated funding aimed at improving outcomes for two rare cancers: gastroesophageal cancer and chordoma. Letters of Intent are requested. [Research Services Office Internal Pre-Application Deadline: January 11, 2023](#)  
RSO Contact: Chantal Lemire

**Opportunities – Postdocs and Graduate**

**Pre-Announcement: CIHR Research Excellence, Diversity, and Independence (REDI) Early Career Transition Award** is a new funding opportunity available to post-doctoral researchers, clinicians, and research associates from specific underrepresented groups to help them launch their research faculty careers in Canada. This program addresses the impact of racism and gender inequality on early career researchers. It uses an intersectional framework for race and gender. The first launch is open to racialized women (including trans and non-binary women and cisgender women) and Black people. Future launches of the REDI award will support additional populations and will continue to promote the growth of diverse research communities. Please see CIHR’s webpage for further detail on the program objectives, eligibility, research areas and timelines.

**Webinar dates and times**
Webinar #1 with Q&A:  
- December 19th from 11:00 – 12:30 MT
Webinar #2 with Q&A:  
- February 1st from 10:00 – 11:30am MT | Please email sci.ad.admin@ucalgary.ca for zoom info

**Questions about eligibility?** Please refer to [CIHR’s Equity Diversity and Inclusion Self-identification Questionnaire](#) or the UCalgary Office of Equity, Diversity and Inclusion [glossary](#).
The application deadline for this opportunity is May 3, 2023. Institutional support is available for applicants – Please contact Caitlin Janzen (Postdoctoral Program Specialist, Research Services Office) for support and to register for UCalgary updates about this program.

Faculty of Science Curriculum Review Support Graduate Research Assistant, Faculty of Science (3 Positions)

Under the supervision of the Associate Dean Teaching and Learning, the graduate student research assistant will provide research support to the Faculty of Science curriculum review and mapping project. This includes, but is not limited to, conducting environmental scans, literature review, and needs assessments. This position will work remotely, with options for regular on-site and/or remote meetings with the research team and supervisors. For more information visit the job posting.

Mitacs The Canadian Science Policy Fellowship (CSPF) is now accepting applications from PhD holders interested in a year-long policy position, starting in September 2023, with a Canadian government host office. Approved fellows receive an annual salary of $70,000 to $80,000 from their host offices, as well as professional development and networking opportunities facilitated by Mitacs. Application deadline: February 1, 2023 (11:59 p.m. PT) For more information, please visit Mitacs website

Reminder: Canadian Natural Resources Ltd. is now accepting applications for their 2023 summer internship program in geoscience. They are looking for talented and self-motivated individuals with a strong work ethic to join the team and contribute to their exciting and growing projects. Third, fourth year and graduate students are encouraged to apply online at https://www.cnrl.com/careers/student-opportunities/

Reminder: APEX Access Mentorship Program connects students and early career researchers with experienced researchers from diverse backgrounds. They are currently recruiting mentors and mentees for the program. For more information visit the APEX website. See attached pdf.

Did You Know?

Next Alertus Test: Thursday, December 22, 2022, at 11:55 a.m. If you experience issues with the Alertus App during this test, email the Emergency Management team at emergencymgmt@ucalgary.ca. See Attached pdf for more information

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

Happy Holidays!

Science Research and Innovation Newsletter (SRIN) comes out every Monday. 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.