Thesis Defense Seminars

**CHEM** PhD Final Seminar: “Molecular dynamic simulations of bulk nanobubbles: Investigation of factors important to their stability” by Duncan Brownsey (Supervisor: Dr. Darren Derksen) on **Friday, February 24, 2023 at 3:00pm in EEEL 161**

**BISI** PhD Final Seminar: “Effects of manganese on biophysical and biochemical properties of biologically relevant membranes and yeast” by Kevin Sule (Supervisor: Dr. Elmar Prennar) on **Wednesday, March 1, 2023 at 10:00am in BI 211**

**CHEM** MSc Final Seminar: “Molecular dynamic simulations of bulk nanobubbles: Investigation of factors important to their stability” by Nihari Pathirannehlage (Supervisor: Dr. Peter Kusalik) on **Monday, March 20, 2023 at 11:00am in SB 324**

**CHEM** PhD Final Seminar: “Studies on the Degradation of Desiccants in Temperature Swing Adsorption Processes and the Adsorptive Separation of Sulfur Compounds from Industrial Fluids” by John Jacobs (Supervisor: Dr. Robert Marriott) on **Thursday March 23, 2023 at 11:00pm in ICT 121**

Seminars & Events

**PHAS** 8th Annual PHAS Symposium will take place on **Tuesday, February 21, 2023 in TI 160**. Two keynote presentations: “Research at the Complex Nano Materials Group” by Dr. Claudia Gomes da Rocha (Department of Physics and Astronomy, University of Calgary) and “Don’t Say XGBoost” by Anna Danko (ATB Financial). For more information, see attached pdfs.

**CPSC** Interactions Lab “Reimagining data visualization to reflect who we already are” by Evan Pecko (Department of Mathematics & Statistics, University of Calgary) **Tuesday, February 21, 2023 at 1:00pm** Join via Zoom: Please contact the Computer Science Department for zoom details (cpsc@ucalgary.ca)

**MTST** Lunch at the Lab: “Deep Learning and American Options via Free Boundary Framework” by Chinonso Nwankwo (Department of Mathematics & Statistics, University of Calgary) **Tuesday, February 28, 2023 at 12:00pm in MS 569**

**SSE** Schulich Innovates: “Enhancing EDI in Research Proposals” by Jaya Dixit, EDI Advisor, Office of Research Services **Wednesday, March 1 at 12:00pm in ENG 207** and Hybrid on Zoom Please Register

**IQST** Institute for Quantum Science and Technology Colloquium Series: “Quantum computing for industry applications” by Enrique Solano (Kipu Quantum), **Thursday, March 2 at 11:00am in MS 431** See attached pdf.

**BISI** APEX Access Program Workshop: “Crafting Impactful Research Proposals” by Dr. Ian Lewis (BISI UCalgary & Director, Alberta Centre for Advanced Diagnostics). Dr. Lewis will present strategies that have helped him successfully obtain large-scale collaborative grants that involve industry partners and internationally recognized research institutions, including Harvard University and the Broad Institute. This workshop will also discuss strategies for incorporating meaningful and authentic EDI statements into research proposals. **Friday, March 3, 2023 at 1:30pm Hybrid Event Online or BI 211**. Please Register See attached pdf.

The University of Calgary **nanoGroup** is pleased to announce the 8th Annual Alberta Nano Research Symposium will take place on **Saturday, April 1, 2023 at the Taylor Institute for Teaching and Learning**. The Symposium will provide
an opportunity to enhance knowledge in nanotechnology, as well as promote new collaborations with other experts in this field. Abstracts submission deadline is **March 1**. General registration deadline is **March 15**. To submit an abstract or register to attend, please visit the event registration page.

**BIRS/PIMS summer school “Inclusive Paths in Explicit Number Theory” (IPENT)** will take place from July 2 to July 15, 2023 at the BIRS satellite site at UBC Okanagan in beautiful Kelowna, British Columbia. It is part of the PIMS-funded Collaborative Research Group on L-functions in Analytic Number Theory. Students and postdocs registration deadline is **March 1, 2023**. Register here.

**1st Annual CRDSSA Disability Research Conference** will take place **Saturday March 25, 2023** on the 7th floor MacKinnie Tower. The conference will center on research that considers the ways in which social, cultural, and political forces impact the disabled experience. The day will include three keynote presentations from Dr. Alan Martino, Dr. Gregor Wolbring, and Dr. Katrina Milaney, two meals, a community panel, and networking sessions for students, faculty, and community partners. Please register.

**Opportunities**

**DARPA (Defense Research Advanced Projects Agency)** provides funding to develop ideas and technologies that enable transformational change rather than incremental advances. The agency encourages multi-disciplinary approaches to both advance knowledge through basic research and create innovative technologies that address current and predicted practical problems through applied research. DARPA offers two types of opportunities:
- Program-specific opportunities that are targeted towards solutions to pre-specified challenges
- Office-wide broad agency announcements (BAA)s that cover a broad range of technical areas and allow researchers to pursue other ideas they feel could be valuable

Many DARPA opportunities have no maximum funding limit; project budgets will typically be determined by the scope of the project. Projects funded through DARPA do not typically require cost sharing or matching funds from other sources. Non-US entities, including Canadian researchers, are able to apply for most DARPA opportunities. Researchers are typically encouraged to submit an abstract and/or executive summary to a program prior to submitting a full proposal, in order to ensure the project aligns with DARPA priorities and interests. Applications are ultimately submitted electronically through DARPA’s submission portal.

See [here](#) for descriptions of currently active funding opportunities.

*If you are interested in applying for any of these opportunities please contact Michael Blough and/or Alexandra Wall from the Strategic Opportunities Unit in the VPR Office. For RMS and application review please contact Tempest Emery.*

**Spring 2023 American Chemical Society Petroleum Research Fund New Directions (ND) Grant** aims to support fundamental research in the petroleum field; and to develop the next generation of engineers and scientists through support of advanced scientific education. ND grants provide funds to scientists and engineers with limited—or even no—preliminary results for a research project they wish to pursue, and who intend to use the PRF-driven preliminary results to seek continuation funding from other agencies. ND grants are to be used to illustrate proof of concept/feasibility. Accordingly, they are to be viewed as seed money for new research ventures. A "new research direction" is something different from previous research performed by the lead principal investigator (lead PI) but it may involve a field of science or engineering in which others are already working. Beginning with proposals submitted in this Spring 2023 submission window, the value of the New Directions (ND) grant is USD $125,000 for up to 2 years.

**RSO Internal Application Deadline:** March 7 at noon

**RSO Contact:** Chantal Lemire

**Alberta Innovates Accelerating Innovations into CarE (AICE) — Validate Program** is an opportunity for Alberta’s health-tech innovators to accelerate the commercialization of emerging health
technologies through the early validation phase. The program specifically provides support for Alberta innovators that have proof of concept and are now ready to refine and validate their technology and business. The objective of the AICE-Validate program is to support Alberta innovators to advance their Product-Market Fit, Business Readiness, Regulatory Compliance, and Product Development of their health innovations during the committing and early validation phases of their commercialization journey.

The AICE-Validate Program has multiple submission dates throughout the year. Intake Forms must be submitted at least 4 weeks in advance to be considered and invited to submit a Full Application on the following submission dates: April 28, 2023; August 11, 2023, and November 24, 2023.

**Next RSO Internal Deadline (full application) April 25, 2023 at noon**
RSO contact: Katie Cupello

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**NSERC - National Science Foundation Global Centres**

Global Centres is a joint initiative between the Natural Sciences and Engineering Research Council of Canada (NSERC), the Social Sciences and Humanities Research Council of Canada (SSHRC), the US National Science Foundation (NSF), Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO), and UK Research and Innovation (UKRI) to encourage and support international collaborative research on climate change and clean energy. The Global Centres initiative includes two tracks:

**Track 1 – Implementation:** Funding up to $750,000 per year for four to five years for the establishment of a Global Centre

**Track 2 – Design:** Funding up to $100,000 per year for one to two years for coordination and preliminary research efforts aiming to foster future Global Centres proposals

**Webinars**

NSERC and SSHRC will be offering joint information sessions on the NSF Global Centres initiative.

**English:** Thursday, March 9, 2023, from 11 am to 12 pm (EST)

Sponsor Deadline: Applications to Track 1 must be submitted by **May 10, 2023**, and between **April 12 and May 10, 2023**, for Track 2.

**RSO Internal Deadline:** **May 5, 2023, 12:00 PM MT**

RSO Contact: Alisha Kadam and Tempest Emery

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**NFRF 2022 Horizon Global Platform competition (extended deadline)**

The list of eligible calls has been expanded for the New Frontiers in Research Fund 2022 Horizon Global Platform Competition (NFRFG-2022), which supports Canadian Researchers who are partners on research and innovation actions under the Horizon Europe competition, Pillar II.

Registrations are now being accepted for projects funded through any Research and Innovation call under Pillar II with a Horizon Europe deadline before September 30, 2023.

The objective of the International stream is to support international research collaborations and position Canada and Canadian researchers as strategic partners at the international level. NFRFG-2022 will provide funding (up to $200,000 per year, plus indirect costs) for Canadian researchers who are partners on successful projects funded through eligible calls under Pillar II (Global Challenges and European Industrial Competitiveness). The Canadian researcher or research team must be an integral part of the larger Horizon Europe research team.

To apply for an NFRFG-2022 grant, Canadian participants on eligible Horizon Europe calls must submit their registration form **by February 28, 2023**, or **within one week of the Horizon Europe deadline for their call**, whichever is later. This is a mandatory step in the application process.

The team must then submit a complete application within two weeks after the review results from a Horizon Europe call are communicated to the project team.

Please contact ipd@ucalgary.ca ASAP for specific deadlines associated with your Registration and full application process.

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**NSERC-NRCan partnership to fund research on small modular reactors**

In support of Canada’s Small Modular Reactor (SMR) Action Plan, the Natural Sciences and Engineering Research Council (NSERC) is partnering with NRCan to fund research on SMRs. NRCan has set aside approximately $1M per year, over 4 years, to co-fund research projects through NSERC’s Alliance grants program. Once the proposed
A research project has been approved by NRCan, eligible university researchers can apply for an Alliance grant with a duration of 1 to 4 years. Partners from industry, government and not-for-profit organizations are encouraged to participate as per NSERC’s Alliance grants program. NSERC’s funding contribution will be calculated using the Alliance cost-sharing formula.

RSO Internal EOI Deadline: April 4, 2023, 12:00 PM MT
RSO Contact: Alisha Kadam and Tempest Emery

Reminder: PIMS The Pacific Institute for the Mathematical Sciences (PIMS) welcomes applications for support of education activities in the mathematical sciences to occur after April 3, 2023. The deadline for submission is February 28th, 2023. We will be awarding grants from $500 up to $5000. Proposals will be reviewed by the PIMS Education Review Panel in early March, with awards announced on March 15th. [https://www.pims.math.ca/news/pims-education-call-proposals-2023](https://www.pims.math.ca/news/pims-education-call-proposals-2023)

Reminder: Canada-CARICOM Leadership Program Global Affairs Canada has launched the 23/24 funding call. The program provides professional development opportunities for faculty wishing to upgrade their knowledge and skills in Canada, and for international managers/administrators who are responsible for prompting student mobility between their home country/territory and Canada. Applicants must be a citizen of the CARICOM member and associate member states. Funding ranges from $3,200 to $11,100 for study or research lasting 2-3 weeks to 5-6 months. UCalgary internal deadline: March 13, 2023. For support or questions, please email Heather Clitheroe, Faculty of Science International Coordinator. Interested applicants, please email intl.scholarships@ucalgary.ca for application.

Reminder: NFRF 2023 International Joint Initiative for Research in Climate Change Adaptation and Mitigation, International stream will provide funding of up to $1,200,000 for 3 years (plus indirect costs) to further the design and implementation of co-produced adaptation and mitigation strategies for vulnerable groups—those groups currently most impacted by the effects of climate change owing to both physical and socioeconomic vulnerability. Project teams will comprise a minimum of three co-principal investigators, and teams must apply for funding from at least two of the participating consortium partners (NFRF being one). Competition parameters are complex; interested researchers should review detailed requirements on the competition web page. The Research Services team will work with partner units in the office of the Vice-President Research and across campus to provide resources and facilitate support services for applicant teams. Contact ipd@ucalgary.ca as soon as possible for more information on supports.

Mandatory Notice of Intent via Convergence Portal – RSO internal deadline April 25 at 9am

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.

**Balzan Prizes** are awarded to scholars, artists and scientists who have distinguished themselves in their fields on an international level. The 2023 Balzan Prizes will be awarded in the following fields: World Literature, Paleoanthropology, Ancient DNA and Human Evolution, and High-resolution images: from planetary to cosmic objects. [Details here](https://www.balzan.org). **Deadline: March 15, 2023.**

**The Global Energy Prize** is awarded to the world’s leading scientists, whose discoveries and technological innovations meet global energy challenges. [Details here](https://www.globalenergyprize.org). **Deadline: March 20, 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.**

The King Faisal International Prize for Science recognizes endeavors to alleviate human suffering through the advancement of research and creative human thinking. The 2024 prize for Science recognizes outstanding research in biology. Institutional nomination required. [Details here]. **Deadline: March 31, 2023.**

**Opportunities – Health Sciences**

Arthritis Society Canada Strategic Operating Grant provides funding to support research proposals aligned with Arthritis Society Canada's priorities. Arthritis Society Canada’s new Strategic Plan 2020-2025: Accelerating Impact - Research Strategy aims to identify research avenues that focus on areas of highest priority to patients and achieve the highest levels of scientific excellence and rigour.

**RSO Internal Deadline for LOI:** Tuesday April 4, 2023 at noon
**RSO Internal Deadline for Full Application:** Tuesday August 29, 2023 at noon
RSO contact: Stephanie Patrick

Arthritis Society Canada Ignite Innovation Grant supports the development and testing of transformative, paradigm-shifting, concepts and approaches to address critical barriers to progress in arthritis research, challenge our understanding of arthritis and its management, and generate novel approaches to confront the challenges we face in defeating arthritis and delivering the best evidence-informed care possible. The program intends to foster novel, high-potential projects and ideas that could be expanded in the future through additional funding sources (i.e., successful operating grants, industry partnership programs, cross discipline funding opportunities, etc.).

**Agency Deadline for Registration (not through RSO):** Tuesday, May 16 at 3PM Mountain time
**RSO Internal Deadline for Full Application:** Monday June 26, 2023 at noon
RSO Contact: Stephanie Patrick

Reminder: Leukemia Research Foundation: 2023 New Investigator Research Grant supports early-career investigators of exceptional creativity who propose highly innovative research projects with the potential to impact broad, essential areas of leukemia research. Grants of up to $150K are awarded over a two-year period to new investigators -- researchers within seven years of their first independent faculty-level position.

**RSO Internal Letter of Intent Deadline:** February 23 at noon
RSO Contact: Chantal Lemire

Reminder: CIHR Catalyst Grant: Chief Public Health Officer (CPHO) Report 2022

This year, the [CPHO 2022 Annual Report](#) is focused on climate change action. The report includes opportunities to establish public health as a key collaborator, convener, and leader in the climate change landscape, promote health and health equity, and inform communities and decision-makers of the public health impacts of climate change. It also identifies opportunities for collective action based on the best available evidence and input from the broader public health community.

This funding opportunity will catalyze research aligned with the opportunities identified in the companion document of the 2022 CPHO Annual Report, [Generating Knowledge to inform Public Health Action on Climate Change in Canada](#), with a portion of funding reserved for Early Career Researchers.

Full application: **RSO Internal Deadline is noon on Friday, February 24, 2023**
RSO Contact: Lindsey Hritzuk

Reminder: CIHR Team Grant: Intervention Trial in Inflammation for Chronic Conditions 2023

aims to improve the health outcomes of people living with, or at risk of developing, chronic conditions by advancing the repurposing, development, and optimization of innovative interventions. Interventions are to target
biological (e.g., genetic, epigenetic), environmental (e.g., exposure to chemical products, air pollution), social (e.g., socioeconomic status, education) and behavioral (e.g., tobacco or cannabis smoking, vaping, diet) triggers of shared pathways of inflammation across two or more chronic conditions.

**LOI stage:**
RSO Internal Deadline is noon on Monday, February 27, 2023

**Full application:**
RSO Internal Deadline is noon on Wednesday, March 6, 2024

RSO Contact: Lindsey Hritzuk

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**Opportunities – Social Sciences**

**Webinar: Finding Your Fit with SSHRC Funding**

Join Dr. Penny Pexman, Associate Vice-President (Research) and the Research Services Office for an overview of SSHRC programs and funding opportunities. This session will cover relevant internal and external funding opportunities for individual and partnered research, and how they fit into the different stages of a research program. Postdocs are welcome to attend and learn about funding they are eligible to apply for now, as well as identify potential pathways for future research funding.

**Date:** Wednesday, March 1, 2:30 p.m. - 4:00 p.m. – Online. Register here.

**SSHRC Connection Grant May 2023** support events and outreach activities geared toward short-term, targeted knowledge mobilization initiatives in the Social Sciences and Humanities. These events and activities represent opportunities to exchange knowledge and to engage with participants on research issues of value to them. Events and outreach activities funded by a Connection Grant can often serve as a first step toward more comprehensive and longer-term projects.

Connection Grants support workshops, colloquiums, conferences, forums, summer institutes, or other events or outreach activities that facilitate:

- Disciplinary and/or interdisciplinary exchanges in the social sciences and humanities;
- Scholarly exchanges between those working in the social sciences and humanities and those working in other research fields;
- Intersectoral exchanges between academic researchers in the social sciences and humanities and researchers and practitioners from the public, private and/or not-for-profit sectors; and/or
- International research collaboration and scholarly exchanges with researchers, students and non-academic partners from other countries.

**RSO Internal Deadline for Full Application:** Wednesday April 26, 2023 at noon

RSO contact Stephanie Patrick

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**Reminder: SSHRC Partnership Engage Grant – March 2023** provides short-term and timely support for partnered research activities that will inform decision making at a single partner organization from the public, private or not-for-profit sector. The small-scale, stakeholder-driven partnerships supported through Partnership Engage Grants are meant to respond to immediate needs and time constraints facing organizations in non-academic sectors. In addressing an organization-specific need, challenge and/or opportunity, these partnerships let non-academic organizations and postsecondary researchers access each other’s unique knowledge, expertise and capabilities on topics of mutual interest.

**Next RSO Internal Deadline:** Friday March 10, 2023 at noon

RSO Contact Stephanie Patrick

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**Opportunities – Postdocs and Graduate**

**Canada-ASEAN Scholarships and Educational Exchanges for Development** Global Affairs Canada has launched the 23/24 funding call for the SEED program. Applications open for short-term research placements (4-6 months) in Canada for graduate and undergraduate students from Brunei Darussalam, Cambodia, Indonesia, Laos (Lao People’s Democratic Republic), Malaysia, Myanmar, The Philippines, Singapore, Thailand, and Vietnam. Funding for graduate students ranges from $10,200-12,700. Internal application deadline: March 14, 2023.
Application form: [https://ucalgary.moveonca.com/form/5dd6feb7aa52b424d26889c3/eng](https://ucalgary.moveonca.com/form/5dd6feb7aa52b424d26889c3/eng). For support or questions, please email Heather Clitheroe, Faculty of Science International Coordinator.

**Emerging Leaders in the Americas Program** Global Affairs Canada has launched the 23/24 funding call for ELAP. Applications open for short-term research placements (4-6 months) in Canada for graduate and undergraduate students from Latin America and the Caribbean. Funding for graduate students ranges from $8,200-$11,000. Internal application deadline: **March 7, 2023**. Application form: [https://ucalgary.moveonca.com/form/5dd6feb7aa52b424d26889c3/eng](https://ucalgary.moveonca.com/form/5dd6feb7aa52b424d26889c3/eng). For support or questions, please email Heather Clitheroe, Faculty of Science International Coordinator.

**Study in Canada Scholarships** Global Affairs Canada has launched the 23/24 funding call for the Study in Canada Scholarships, which provide funding for short-term research placements in Canada (4-6 months) for students from post-secondary institutions located in Bangladesh, Nepal, Taiwan, Turkey, Ukraine, Algeria, Egypt, Jordan, Libya, Morocco, Tunisia, Burkina Faso, Ethiopia, Ghana, Ivory Coast, Kenya, Nigeria, Rwanda, Senegal, Tanzania, and Uganda. Funding for graduate students ranges from $10,200-$12,700. Internal application deadline: **March 7, 2023**. Application form: [https://ucalgary.moveonca.com/form/5dd6feb7aa52b424d26889c3/eng](https://ucalgary.moveonca.com/form/5dd6feb7aa52b424d26889c3/eng). For support or questions, please email Heather Clitheroe, Faculty of Science International Coordinator.

**BGSA** Announces Biological Sciences Equity Diversity and Inclusion Award. Submit a 500 word statement with one reference letter to biogsa@ucalgary.ca Deadline **March 15, 2023**. See attached pdf for more information.

**Ivarson Soil Science Scholarships** Two $3,000 scholarships now available for graduate students studying soil science. Application guidelines and forms are available at: [www.CFFAE.ca](http://www.CFFAE.ca) Deadline **March 20, 2023**.

**Statistical Society of Canada (SSC) 2023 Case Studies in Data Analysis Competition** Two Case study topics are available: Case Study #1: Optimizing Patient Flow in Emergency Department, Case Study #2: Understanding how Canada’s economy might be impacted by climate change. Prize for each study is $1,000 to be shared by winning team members. Application guidelines and forms are available at: [www.ssc.ca](http://www.ssc.ca) Registration Deadline **April 1, 2023**.

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.