Thesis Defense Seminars

**MTST** MSc Final Seminar: “Optimization Approaches for Intensity Modulated Proton Therapy Treatment Planning” by Bahar Mousazadeh (Supervisor: Yuriy Zinchenko) **Wednesday, July 26, 2023 at 10:00am on Zoom.** Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

**CHEM** MSc Final Seminar: “Confirmation and Quantification of Nanobubbles in Water Produced from a Batch Generator Driven by Electric Fields” by Jeas Grejoy Andrews (Supervisor: Susana Kimura-Hara) **Wednesday, July 26, 2023 at 11:00am in ES 136**

**CPSC** MSc Final Seminar: “Covert Communication in Autoencoder Wireless Systems” by Ali Mohammadi (Supervisor: Majid Ghaderi) **Wednesday, August 2, 2023 at 12:00pm on Zoom.** Please contact the Computer Sciences Department for zoom details (cpsc@ucalgary.ca)

**BISI** MSc Final Seminar: “Characterizing hydrological balance and hydrochemistry of a chronosequence of newly formed wetlands within the Athabasca Oilsands Region using isotopic and geochemical tracers” by Michael Wendlandt (Supervisor: Jan Ciborowski) **Friday, August 4, 2023 at 9:00am in BI 211 or Zoom.** Please contact the Biological Sciences Department for zoom details (biosci@ucalgary.ca)

**BISI** PhD Final Seminar: “Uncovering the molecular mechanisms of cardiac ion channels’ regulation by lipids and pore formation in membranes using computer simulations” by Haydee Galloso (Supervisor: Peter Tieleman) **Wednesday, August 9, 2023 at 9:00am in BI 211**

Seminars & Events

**Quantum Lunch & Learn:** UCalgary is a nationwide leader in quantum computing, and we’re pleased to offer Canada’s first professional graduate programs in this field. Intrigued? On **Wednesday, July 26 at 12:00 MT**, join us for a lunch-and-learn at our downtown campus to: Meet program leaders and instructors; Learn about our programs and how they can help your career or business; Enjoy a complimentary lunch with our team. Register [attend in person](#) or to [attend via zoom](#). See attached poster for more information

**BISI:** The Summer BIOL 243 class will be presenting the results from their term-long Bacterial Evolution Research Project. This was a pilot for a larger scale Course-based Undergraduate Research Experience (CURE) that will be implemented in full during the Winter 2024. This is an open poster session. **Thursday, July 27 between 1:30 –3:30 pm (drop in) in TI 160**

**2023 Research Security Conference:** Mitigating Risk in a Changing World will be co-hosted by UCalgary with University of Alberta this fall. Focusing on Canada in an international context with panels on a range of topics, the conference will also offer workshops hosted by the federal government on due diligence reviews and risk assessment forms. [Pre-register](#) to save your spot. **Oct 26-27, 2023 – University of Calgary campus.**

**NSERC – Discovery Grants**

Faculty timelines can be [found here](#).
If you missed RSO’s info sessions NSERC DG Info Session on July 5 or the NSERC DG ECR Info Session on July 20, please email Alisha Kadam in RSO for a copy of the recording and/or slides.

**NSERC Discovery Grants - NOI**
The mandatory deadline to submit the NOI in the NSERC Research Portal is Tuesday, August 1, 2023 by 6:00 p.m. (MT). Please note that applicants must also complete a Canadian Common CV for the submission of your NOI. The Notice of Intent (NOI) is submitted directly to NSERC by the researcher (it does not go to Research Services). A list of upcoming NSERC webinars on Discovery Grants can be found here.

RSO Contact: Alisha Kadam  
Science Contact: Rhian Gunn

**NSERC Subatomic Physics funding opportunities**
1. Subatomic Physics Discovery grants - Individual
2. Subatomic Physics Discovery grants – Project (Requesting $500,000 or more per year)

The mandatory deadline to submit the NOI in the NSERC Research Portal is Tuesday, August 1, 2023 by 6:00 p.m. (MT). The NOI is submitted directly to NSERC by the researcher (it does not come to Research Services). The NOI does not require institutional approval and there is no internal deadline.

RSO Contact: Alisha Kadam

**NSERC COVID-19 Extension with Funds (2024-25 fiscal year)**
Eligible grantees (those in their final funded year of their DG; application in Fall 2018/start date April 1, 2019) should have already received a system-generated email from NSERC, prompting them to access a secure website where they can accept or decline the funded extension. ECR grantees have until August 2 at 6 PM (MT) and all other grantees (including DG – Subatomic Physics and DG – Northern Research Supplements) have until September 15 at 6PM (MT) to request the extension and confirm they will use the funds for their research program. If you are unsure about whether you should have received this email, please contact Rhian Gunn. If you have not received the system-generated email yet, please check your spam or clutter email folder first, and then contact regrunt@nserc-crsng.gc.ca.

Researchers who do not wish to request the extension must submit a Notification of Intent to Apply for a Discovery Grant (NOI) by August 1 at 6PM (MT) to be considered for the 2024 competition.

**Opportunities**

**2023 Electrifying Society: Towards Resilient Decarbonized Communities**
Concordia University and its partners (UCalgary, Dalhousie, Toronto Metropolitan University) secured the Canada First Research Excellence Fund (CFREF) grant entitled Electrifying Society: Towards Resilient Decarbonized Communities (ERDC) effective March 1, 2023. This initial call for Seed Grant proposals (2023) is based on the plan as set out in the ERDC proposal, specifically its three Themes and three Platforms. Following the selection of the initial projects, a full retreat of researchers, funded or not, will be convened to reflect on the funding strategy and adapt it to the rapidly evolving landscape. The aim is to ensure that the funding strategy incorporates equity, diversity, and inclusion principles at all levels.

The Principal Investigator (PI) must be affiliated with one of the above-mentioned institutions. A researcher is limited to submitting one application as a principal investigator (PI) and participating in a maximum of three applications as a Co-Principal Investigator. Co-Principal Investigators can be affiliated with Concordia University, one of the three partnering institutions, or one of our collaborating institutions (Carleton University; University of Windsor; École de Technologie Supérieure; École Polytechnique de Montréal and Université de Montréal). Please note that applications must include collaboration between at least three researchers.
The participation of non-academic partners (private, governmental, non-for-profits, etc.) is compulsory. Applicants are strongly encouraged to explore new partnerships. For the list of non-academic partners supporting the ERDC, please visit the following website here.

- Amount: Up to $125,000 per year for 2 years.
- RSO Internal Deadline (full application): September 6, 2023

RSO contact: ipd@ucalgary.ca

**Alberta Innovates Chronic Wasting Disease (CWD) Research Program**

The Chronic Wasting Disease (CWD) Research Program supports collaborative research directly related to understanding and managing CWD, a prion disease that affects deer, elk, and other cervids. The program will result in a better understanding of the mechanisms of CWD and other protein misfolding diseases, develop innovative approaches that contribute to the diagnosis, prevention, cure, and possible elimination of the disease, and explore opportunities for new tests to be developed in Alberta. Projects could provide information useful to all levels of government for the development of public policies regarding CWD. Proposals that embody expertise and approaches including more than one of the following program theme areas are strongly encouraged: protein folding and misfolding; pathobiology of Transmissible Spongiform Encephalopathies (TSEs); surveillance and control; and CWD and society. CWD Research projects must include a cash contribution from a partner funder, external to the nominated PI’s organization, of at least 25% of the total amount contributed by Alberta Innovates.

All interested applicants must register by submitting the CWD Research Intake Form. The deadline for registration is **August 14, 2023 at 5:00 pm (MT)**. RSO review and RMS approvals are not required for registration.

RSO Internal Deadline (full application): **September 20, 2023 at noon**

RSO contact: Katie Cupello

**Natural Resources Canada: Critical Minerals Research, Development and Demonstrating Program**

NRCan recently released a funding opportunity with a focus on critical minerals mining technology valued at a maximum of $5MM per project. While NRCan will cover up to 100% of project costs it is expected recipients will cover 50%. The requirements of the opportunity are as follows:

- the technology is at the technology readiness level (TRL) 6-7-8
- the technology will produce key critical minerals – the focus is on nickel, cobalt, lithium, graphite, manganese, vanadium, titanium, gallium, scandium, magnesium, tellurium, zinc, niobium, germanium, antimony, indium and cesium, and the specific rare earth elements of neodymium, praseodymium, dysprosium, gadolinium and terbium.
- the technology aims to support raw material inputs into priority value chains in Canada through the development of:
  - clean technologies (focusing on zero emission vehicles batteries)
  - advanced manufacturing (focusing on permanent magnets) and/or
  - information and communications technologies (focusing on semi-conductors)

Applications are due **Sept. 29, 2023**. Please contact Michael Blough if you are interested in applying.

**UCalgary Taylor Institute: Teaching and Learning Grants**

The Teaching and Learning Grants program supports the development, implementation, critical examination and dissemination of innovative approaches to teaching and learning. New this year is a $5,000 Emerging Scholar Supplement for recipients who engage an academic staff member, support staff member, or postdoctoral scholar in the project who has not previously participated in a successful University of Calgary Teaching and Learning Grant application. We support different types of projects through three grant streams:

- **Development and Innovation**: This grant stream supports projects that develop a new teaching approach or improve upon an existing teaching practice.
- **Scholarship of Teaching and Learning**: These grants support formal, evidence-based studies focused on better understanding or improving student learning.
**Educational Leadership Grants:** This new stream is intended to support the development of educational leadership capacity through the implementation of strategic teaching and learning initiatives that include the development of professional learning opportunities. We invite applications from academic staff, student service professionals, and administrative staff. Please contact Interim Associate Dean – Teaching & Learning [Dr. Mark Bauer](mailto:) if you are interested in applying.

**Peer review deadline (optional):** October 30, 2023  
**Deadline:** January 15, 2024

**Shastri Indo-Canadian Institute funding program 23-24**  
SICI has announced its [2023/2024 funding programs](https://). Grants include funds to support mobility, collaboration and curriculum development for Canadian and Indian scholars and students. For application assistance and advice, please contact [Heather Clitheroe](mailto), Faculty of Science International Coordinator.

- **Binational Agri-Cluster funds:**
  - [Conference organization grant (Aug 31 deadline)](https://)
  - [Agricultural lecture series grant (Aug 31 deadline)](https://)
  - [Curriculum development mobility grant (Aug 31 deadline)](https://)
  - [Best research paper award for students](https://) (Dec 31 deadline; co-authored papers with faculty eligible)

- **Binational One Health Cluster funds:**
  - [Conference grant (Aug 31 deadline)](https://)
  - [One Health Lecture Grant (Aug 31 deadline)](https://)
  - [Curriculum development mobility grant (Aug 31 deadline)](https://)
  - [Best research paper award for students](https://) (Oct 31 deadline; co-authored papers between students and faculty eligible)
  - [Mapping and Matching Workshops (One Health)](https://) with focus on zoonotic diseases, antimicrobial resistance, food safety and security, vector-borne diseases, environmental contamination, and health threats to people and animals (EOI deadline – July 31)

- **Faculty collaboration and internationalization projects** (July 16 deadline)
- **ASII (Semester in India) development grants** (Aug 15 deadline)
- **Best Research Paper Awards** (non-student; Dec 31 deadline)
- **Lecture series/Workshop/Seminar** in all areas, but especially on topics including digital technologies, clean energy, green economy, sustainability (Aug 31 deadline; events must take place before March 31, 2024; direct contribution from collaborating institution required)
- **Conference/symposium development grants** in all areas, but especially on topics including agriculture, One Health, AI and robotics, climate change, ocean and marine life (including fisheries, oil and gas, and clean energy) (Aug 31 deadline)

### Reminders: Upcoming Deadlines

<table>
<thead>
<tr>
<th>Funding Program</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2023 NSERC PromoScience Grants</strong></td>
<td></td>
</tr>
<tr>
<td>NSERC webinar: July 25 @ 11am-12:30pm on MS Teams</td>
<td></td>
</tr>
<tr>
<td>RSO iNOI deadline: August 25 @ noon</td>
<td></td>
</tr>
<tr>
<td>RSO internal deadline: Sept 12 @ noon</td>
<td></td>
</tr>
<tr>
<td><strong>2023 ASPCA Research Grants</strong></td>
<td></td>
</tr>
<tr>
<td>RSO internal deadline: July 26 @ noon</td>
<td></td>
</tr>
<tr>
<td><strong>Alberta Innovates LevMax-Health: Tri-agency Spring 2023 Competition</strong></td>
<td></td>
</tr>
<tr>
<td>RSO internal deadline: August 8 @ noon</td>
<td></td>
</tr>
<tr>
<td><strong>Research Cooperation in the Canadian Francophonie Program</strong></td>
<td></td>
</tr>
<tr>
<td>RSO internal deadline: September 5 @ noon</td>
<td></td>
</tr>
</tbody>
</table>
2023 Alliance Consortia Quantum grants

RSO internal review deadline: October 11 @ noon

Alberta Innovates Campus Alberta Small Business Engagement (CASBE) Grants

RSO internal deadline: at least 3 business days before submission to Alberta Innovates (continuous intake)

Alberta Innovates – Advance Program Stream II (General – NSERC Alliance) 2023-2024

RSO internal deadline: at least 3 business days before submission (continuous intake to March 31, 2024)

Opportunities – Awards

If you would like support in developing a nomination package (for any award including those listed below), please contact Danielle Demiantschuk as early as possible. Opportunities can be found on the FOS awards site and on the RSO awards opportunity site.

Canada Gairdner Awards (Gairdner Foundation) celebrate the world’s best biomedical and global health researchers through annual prestigious awards. Details here. Deadlines: multiple (July 15; October 1).

Sloan Research Fellowships recognizes and rewards outstanding early-career faculty (who hold a Ph.D. or equivalent degree in chemistry, computer science, Earth system science, economics, mathematics, neuroscience, physics, or a related field) who have the potential to revolutionize their fields of study. Details here. Deadline: September 15, 2023.


Faculty of Science Awards of Excellence are now open. These awards are an important way to recognize the incredible teaching, innovation, research, and work in the faculty! Details here. Deadline: September 29, 2023.

Royal Society of London Fellowship celebrates those individuals who have made a “substantial contribution to the improvement of natural knowledge, including mathematics, engineering science and medical science.” Each candidate is considered on his or her own merits and can be proposed from any sector of the scientific community. Details here. Deadline: September 30, 2023.

Johnson & Johnson WISTEM2D Scholars fuels the development of female STEM2D leaders and feeds the STEM2D talent pipeline by awarding and sponsoring women at critical points in their careers. Details here. Internal Deadline (the FOS can submit only one nomination; if you are interested, please contact Danielle as soon as possible): August 17, 2023; Program Deadline: September 30, 2023.

Opportunities – Health Sciences

CIHR: Project Grant Fall 2023
The Project Grant program is designed to capture ideas with the greatest potential for important advances in fundamental or applied health-related knowledge, health care, health systems, and/or health outcomes by supporting projects of research proposed and conducted by individual researchers or groups of researchers in all areas of health. The best ideas may stem from new, incremental, innovative, and/or high-risk lines of inquiry or knowledge translation approaches.

Registration is due directly to CIHR via ResearchNet no later than 6:00 PM on Thursday, August 17, 2023
Research Services’ final internal deadline for the full application is 12:00 PM on Monday, September 11, 2023
RSO Contact: Lindsey Hritzuk

**CIHR: Faculty Information Sessions & Grant Development Webinars**
The Cumming School of Medicine Grant Development Office is holding several information sessions and grant development webinars to support applicants to the Fall 2023 CIHR Project Grant Competition. All webinars are open to faculty, staff, and trainees affiliated with the University of Calgary. Please contact Brandi Povitz if you have any questions about the sessions.

**CIHR Project Grant Fall 2023 – Faculty Information Session (August 9)**
**Info Session 2:** August 9, 10:00-11:30AM, Zoom. Register here.

**Grant Basics: How to Submit your Research Grant & Introduction to the Canadian Common CV and CIHR Biosketch (August 22)**
**Date and Time:** August 22. Register here.
How to Submit your Research Grant: 2:00-2:30PM
Intro to the CCV and CIHR Biosketch: 2:30-3:00PM

**Reminders: Upcoming Deadlines**

<table>
<thead>
<tr>
<th>Grant Program</th>
<th>Registration (directly to CIHR): August 1</th>
<th>RSO internal deadline (full app):</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIHR Catalyst Grant: Crisis Line and App-based Support for Public Safety 2023</td>
<td>RSO internal deadline (full app): November 10 @ noon</td>
<td></td>
</tr>
<tr>
<td>Crohn’s and Colitis Grants-in-Aid of Research</td>
<td>NOI (directly to funder): August 1</td>
<td></td>
</tr>
<tr>
<td>Accelerating Research in Concussion (ARC) Award</td>
<td>RSO internal deadline: Sept 27 @ noon</td>
<td></td>
</tr>
<tr>
<td>Heart and Stroke Foundation 2024-2025 Grant-In-Aid Competition</td>
<td>Deadline: August 15</td>
<td></td>
</tr>
<tr>
<td>Arthritis Society Canada Strategic Operating Grant</td>
<td>RSO internal deadline: August 29 @ noon</td>
<td></td>
</tr>
<tr>
<td>Terry Fox New Investigator Award</td>
<td>RSO internal deadline: August 30 @ noon</td>
<td></td>
</tr>
<tr>
<td>CAAIF/CIHR-III Food Allergy Research Grant</td>
<td>RSO internal deadline: August 31 @ noon</td>
<td></td>
</tr>
<tr>
<td>2024/25 Heart &amp; Stroke - New Investigator Award</td>
<td>RSO internal deadline: Sept 4 @ noon</td>
<td></td>
</tr>
<tr>
<td>CIHR Operating Grant: Data Analysis Using Existing Databases and Cohorts (2023)</td>
<td>Registration (directly to CIHR): Sept 7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RSO internal deadline (full app): Sept 28 @ noon</td>
<td></td>
</tr>
<tr>
<td>Canadian Cancer Society Challenge Grants</td>
<td>RSO internal deadline (full app): Sept 18 @ noon</td>
<td></td>
</tr>
<tr>
<td>Grant Name</td>
<td>RSO internal deadline</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Lung Cancer Canada Geoffrey Ogram Memorial Research Grant</td>
<td>RSO internal deadline: Sept 26 @ noon</td>
<td></td>
</tr>
<tr>
<td>Breast Cancer Canada: Screening + Detection Research Grant</td>
<td>RSO internal deadline (full app –</td>
<td></td>
</tr>
<tr>
<td></td>
<td>invitation only): September 26 @ noon</td>
<td></td>
</tr>
<tr>
<td>Crohn’s and Colitis Innovations in IBD Research</td>
<td>RSO internal deadline: Sept 27 @ noon</td>
<td></td>
</tr>
<tr>
<td>CIHR Other: NWHRI: Pan-Canadian Women’s Health Coalition -</td>
<td>Registration (directly to CIHR): Sept 28</td>
<td></td>
</tr>
<tr>
<td>Coordinating Centre</td>
<td>RSO internal deadline (full app): October</td>
<td></td>
</tr>
<tr>
<td></td>
<td>26 @ noon</td>
<td></td>
</tr>
<tr>
<td>CIHR Operating Grant: CRISM Indigenous Engagement Platform</td>
<td>RSO internal deadline: October 2 @ noon</td>
<td></td>
</tr>
<tr>
<td>CIHR Team Grant: Strengthening the Health Workforce for System Transformation</td>
<td>Registration (directly to CIHR): October 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RSO internal deadline (full app): November 6 @ noon</td>
<td></td>
</tr>
<tr>
<td>Leukemia and Lymphoma Society: 2023 Scholar - Career Development Program</td>
<td>Eligibility submission: October 27</td>
<td></td>
</tr>
<tr>
<td>and</td>
<td>LOI (direct to funder): November 15</td>
<td></td>
</tr>
<tr>
<td>Leukemia and Lymphoma Society: 2023 Clinical Scholar - Career</td>
<td>RSO internal deadline (full app): November 28 @ noon</td>
<td></td>
</tr>
<tr>
<td>Development Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alzheimer’s Society Proof of Concept Grant</td>
<td>RSO internal deadline (full app): October 31 @ noon</td>
<td></td>
</tr>
<tr>
<td>Alzheimer’s Society New Investigator Operating Grant</td>
<td>RSO internal deadline (full app): October 31 at noon</td>
<td></td>
</tr>
<tr>
<td>CIHR Operating Grant: HCRI - Data Analysis Using Existing Databases and Cohorts 2023</td>
<td>RSO internal deadline: November 3 @ noon</td>
<td></td>
</tr>
<tr>
<td>CIHR Operating Grant: TRANSCAN-3 (JTC 2023)</td>
<td>RSO internal deadline (full app): December 11 @ noon</td>
<td></td>
</tr>
</tbody>
</table>

**Opportunities – Social Sciences**

**Reminders: Upcoming Deadlines**

<table>
<thead>
<tr>
<th>Grant Name</th>
<th>RSO internal deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSHRC Connection Grant</td>
<td>RSO internal deadline: July 27 @ noon</td>
</tr>
<tr>
<td>SSHRC 2023 Insight Grant Competition</td>
<td>Webinar: August 17 @ 11am-12:30pm (Webex link here)</td>
</tr>
<tr>
<td></td>
<td>RSO internal deadline: September 28 @ noon</td>
</tr>
<tr>
<td>Trans-Atlantic Platform (T-AP) for Social Sciences and Humanities:</td>
<td>Webinar: August 23 @ 2-3:30pm (Webex link here)</td>
</tr>
<tr>
<td>Democracy, Governance and Trust</td>
<td>NOI deadline (direct to funder): Sept 15</td>
</tr>
<tr>
<td></td>
<td>RSO internal deadline: Nov 1 @ noon</td>
</tr>
</tbody>
</table>
SSHRC Open Research Area

Webinar 1: Sept 21 @ 5am (link here; password SSHRC2023)
Webinar 2: Sept 21 @ 12pm (link here; password SSHRC2023)
RSO internal deadline: Nov 9 @ noon

SSHRC Social Sciences and Humanities Research Network on Sustainable Agriculture in a Net-Zero Economy

RSO internal deadline: October 17 @ noon

SSHRC Partnership Development Grants

RSO internal deadline: November 8 @ 9am

Graduate Students and Postdocs

Burroughs Wellcome Fund (BWF) Career Awards at the Scientific Interface

- **Amount:** $560,000 (US) over 5 years
- **Internal Deadline (Letter of Intent):** August 29, 2023
- **Eligibility:** These grants are intended to foster the early career development of researchers who are dedicated to pursuing a career in academic research. The specific target group are researchers who have transitioned from graduate work in the physical/mathematical/computational sciences or engineering into postdoctoral work in the biological sciences. These awards are open to U.S. and Canadian citizens, permanent residents, and temporary residents.

Please contact Danielle Demiantschuk if you are interested in applying.

Innovation Catalyst Grant

The Innovation Catalyst Grant (ICG) is an entrepreneurial fellowship designed to support recent graduates (Master’s or PhD) in Science, Technology, Engineering and Mathematics (STEM) disciplines. This grant provides a 2-year runway for applicants to develop and commercialize innovative, science-based products and services that contain a hardware component. The ICG is designed to provide aspiring entrepreneurs with annual stipend, seed funding, lab and office access, technical mentorship, business development and networking.

Contact Alicia Couto at Innovate Calgary for more information.
Submission deadline is September 15, 2023

Congratulations!

Michael Hynes (BISI) is retiring after 33 years at UCalgary. Thank you to Michael for all he has done for our students and the Faculty of Science!

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.