LAUNCH

Atlantic Climate Research Collaboration (ACRC)

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ATLANTIC CLIMATE RESEARCH COLLABORATION (ACRC)

A new initiative co-sponsored by **ResearchNS** and **CANSSI** to tackle complex problems related to climate change and its impacts on coastal communities

ACRC will:

- Foster and support research and training that spans postsecondary institutions and disciplines in Atlantic Canada
- Provide an inclusive environment that draws in faculty, students, and application partners from across Atlantic Canada
- Create collaborative research teams that outlive the program itself

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RESEARCH NOVA SCOTIA

Climate Change Adaptation & Resilience

Mission 2
Prepare for climate change impacts on the environment and natural resources

Improved Quality of Life for Nova Scotians

Mission 4
Create livable, sustainable and inclusive communities

- An independent not-for-profit corporation that supports research across disciplines, including health, natural and social sciences, engineering and the humanities in Nova Scotia.

- RNS supports, organizes and co-ordinates the funding of research in Nova Scotia for the benefit of Nova Scotians: research is oriented to accomplish provincial priorities.

- Mission-oriented approach: focus efforts to achieve solutions in priority areas.

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RESEARCH NOVA SCOTIA

How we work

1. Opportunity or risk to society.

- Start with what we want to accomplish

- Turn these into challenges that research can solve

- Focus efforts in priority areas to achieve results

2. Convene the research community

- Invite researcher to contribute to these shared goals.

- Encourage creativity, diversity and imagination

3. Work with partners and those who apply research

- Governments, industry, communities

- Move from knowledge to implementation

CANSSI IS …

THE NATIONAL RESEARCH INSTITUTE IN STATISTICAL SCIENCES

- CANSSI advances the development, application, and communication of cutting-edge statistical sciences research and training
- CANSSI builds multi-disciplinary collaborations with leadership in statistical sciences
- CANSSI enables new linkages between statistical sciences and research in academia, industry, nonprofits and government
- CANSSI works to build an equitable, diverse and inclusive Canadian statistical sciences community

CANSSI's Organization

- NATIONAL OFFICE HOSTED AT SIMON FRASER UNIVERSITY (SFU) IN BURNABY, B.C.:
  - Director Don Estep (SFU)
  - Deputy Director Andrea Benedetti (McGill University)

- 35 INSTITUTIONAL MEMBERS ACROSS CANADA

- REGIONAL CENTRES HOSTED BY MEMBER UNIVERSITIES:
  - Dalhousie (Atlantic)
  - Concordia (Quebec)
  - Toronto (Ontario)
  - Manitoba (Prairies)

- PLANNING IS UNDERWAY FOR CANSSI ROCKIES

PARTNERS INCLUDE
- Statistical Society of Canada
- Statistics Canada
- National Institute of Statistical Sciences
- Alan Turing Institute
- American Statistical Association

CANSSI REGIONAL CENTRES

ATLANTIC, QUEBEC, ONTARIO, PRAIRIES, ROCKIES (SOON)

- Organize CANSSI-related programs and activities in the region
- Advise CANSSI on the deployment of resources in the region
- Seek regional support for the Regional Centre and CANSSI
- Build partnerships between CANSSI and regional institutions

CANSSI National provides a small annual budget to support regional activities and is open to funding more substantial programs based on co-funded regional adaptations of CANSSI's Flagship Programs

CANSSI
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CANSSI ATLANTIC

- Hosted by the Department of Mathematics and Statistics in the Faculty of Science (with support from the Faculty of Computer Science) at Dalhousie University

- Aiming to promote joint activities with regional entities such as the Atlantic Association for Research in the Mathematical Sciences (**AARMS**), **DeepSense**, the Ocean Frontier Institute (**OFI**), the Ocean Tracking Network (**OTN**), **Genome Atlantic**, as well as national entities like **Mitacs** and **Fisheries and Oceans Canada**.

- ACRC is serving as a model for other regional centres.

Dedicated to supporting data-intensive research and strengthening the network of statistical scientists in the Atlantic region.

Currently focused on building collaborations and activities related to data-intensive marine research.

ACRC PROGRAM OVERVIEW

INVESTIGATE CLIMATE CHANGE IMPACTS ON COASTAL COMMUNITIES AND OPPORTUNITIES FOR MITIGATION AND ADAPTATION THAT HAVE THE POTENTIAL FOR IMMEDIATE IMPACT ON SOCIETY

- PROVIDES SUPPORT FOR RESEARCH PROJECTS THAT HAVE A SIGNIFICANT COMPONENT RELATED TO:
    - DEVELOPING NEW FUNDAMENTAL STATISTICAL AND INFERENTIAL DATA SCIENCE METHODOLOGY AND MODELS *AND/OR*
    - APPLYING STATISTICAL AND DATA SCIENCE METHODS AND MODELS IN INNOVATIVE WAYS
- CANSSI ATLANTIC OVERSEES THE PROGRAM, RESEARCH NOVA SCOTIA MANAGES THE APPLICATIONS, AND WE JOINTLY FUND PROJECTS
- CANSSI NATIONAL PROVIDES PROJECT SUPPORT, APPLICATION ADJUDICATION AND PROJECT REPORTING

ACRC PROGRAM PARAMETERS

- Projects must include:
  - Faculty leads from at least two academic units in Atlantic Canada (of which at least one must be in NS)
  - An engaged non-academic partner (e.g., municipality, non-profit, etc.)
- 3 intakes/year (fall, winter, summer) for each of the next two years
- Proposal evaluation rubric will be shared when applications open
- Review and decision expected within eight weeks of intake deadline
- Anticipated ACRC budget approx. $400k
- Estimate $50k to $100k per project
- Funded projects must conclude by March 2026

HOW TO APPLY

Basic information

Academic partners and non-academic partners.
Names and affiliations of HQP.
Start and end dates.

Project, partners and training

Expected outcomes of the project (1 page).
   How will it lead to improved assessment and/or mitigation of the impact of climate change on coastal communities?
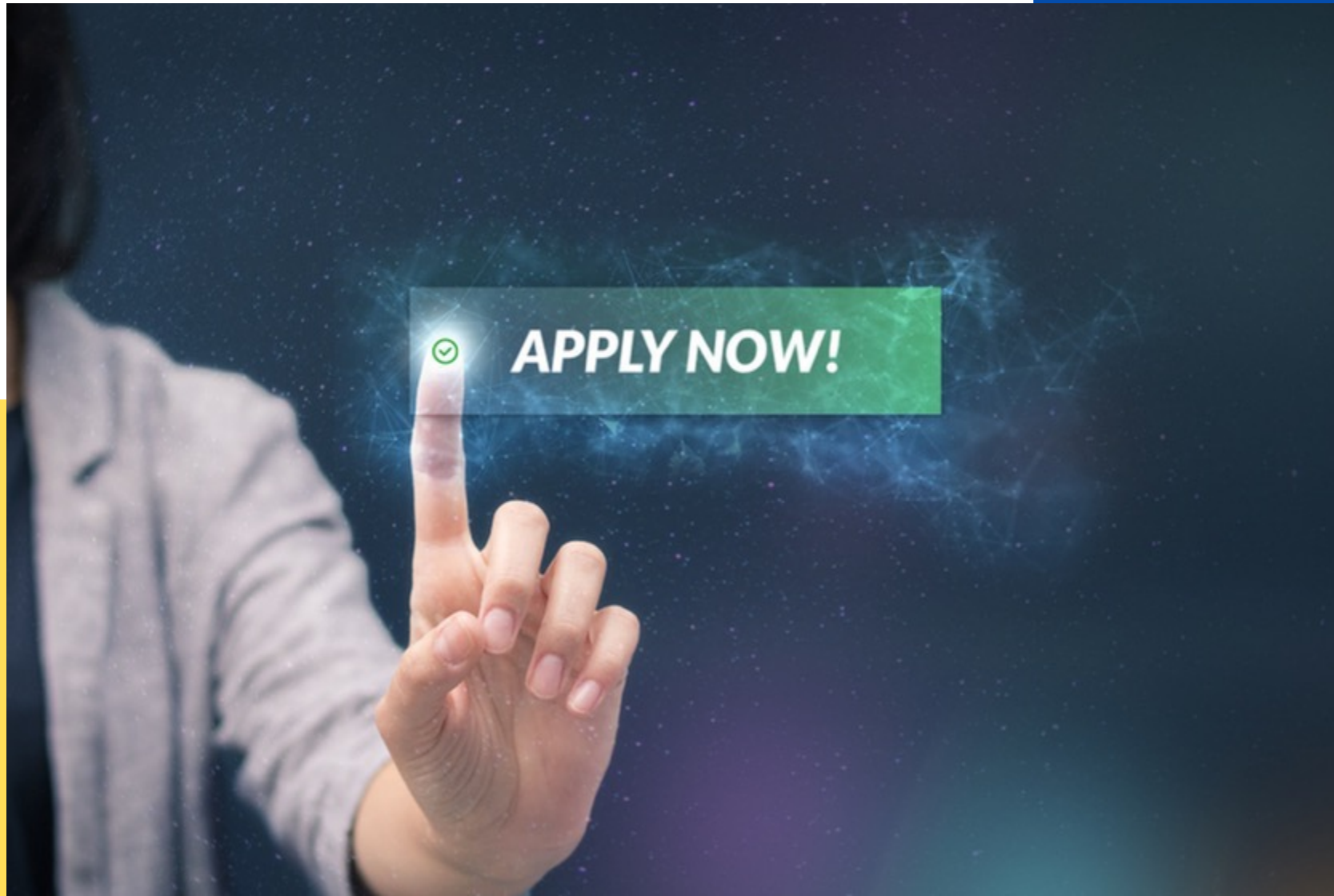Research description (2.5 pages).
   Describe the statistical sciences methodology and models and/or application of statistical science in innovative ways that will be pursued.
Partners and collaboration (1 page).
   How is the non-academic partner involved in the project?
Training (1 page).
   Describe the roles and activities of the HQP that will be involved.

Budget

Budget table (include HQP, equipment, materials/data, travel, training, communication and dissemination).
Budget justification (1 page)

Supplementary information

A letter of interest from the non-academic partner describing their support for the project and their contributions (1 page)

ACRC website live now:
- canssi.ca
- Researchns.ca

HOW TO APPLY

Applications for intake 1 (Winter 2023) will open on 12 December 2022 and close on 10 February 2023 on the Research Nova Scotia website

QUESTIONS ?

APPLICANTS ARE ENCOURAGED TO CONSULT US REGARDING POTENTIAL APPLICATIONS BEFORE SUBMISSION.

WE ARE READY TO ASSIST IN PREPARATION OF COMPETITIVE APPLICATIONS.

THANK YOU!!

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