

RESEARCH OPPORTUNITIES

Kristin Tweel, Ph.D, MBA
Business Development Officer



GenomeAtlantic

Life Sciences. Life Solutions.

GENOME ATLANTIC

- A not for profit corporation
- Mandate to help the region benefit from genomics research and development
- Enabled over \$70 million in new genomics R&D since 2000



WHAT IS GENOMICS?

- The powerful combination of genetics, biology and computer science that provides unprecedented insight into living things at the molecular level.





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Genomics is relevant to all sectors

ENVIRONMENTAL SERVICES SECTOR

- Environmental remediation
 - Northern climates
 - Tailings reclamation
 - Acid mine drainage
- Environmental monitoring



OUR SERVICES

- Partnership Facilitation
- Opportunity Exploration
- Proposal Development



PARTNERSHIP FACILITATION

Building partnerships across Canada to address the needs of the environmental industry

- Remediation of old Labrador exploration sites
 - MUN and Altius Minerals
- Developing protocols to use in eDNA monitoring
 - UNB, Dalhousie, Guelph, cross-country industry partners



OPPORTUNITY EXPLORATION

Example: LuminUltra in Fredericton, NB

Using our Genomics Opportunity Review Program to co-fund a consultant to explore the introduction of genomics technology onto the company's product platform.



PROPOSAL DEVELOPMENT

- Stewardship of the proposal development process and direct financial support for:
 - planning meetings, panel reviews
 - editorial & technical reviews
- Recent examples:
 - NSERC Engage
 - MUN and Altius Minerals \$25K



Genomics Opportunity Review

Designed to projects that:

- Provide proof of concept of ‘omics technologies or approaches to support larger investment
- Identify priorities for ‘omics R&D
- Assess off-the-shelf ‘omics tools that may benefit the applicant
- Support integration of new ‘omics technology



Genome Canada Funding Programs

Genomic Applications Partnership Program (GAPP)

- Co-led by Industry-Academic team
- Project size of \$300K - \$6M

2015 Large Scale Applied Research Projects (LSARP)

- Natural Resources Theme
- Project size \$2M - \$10M



We gratefully acknowledge the financial support of our key partners.



GenomeCanada



**Atlantic Canada
Opportunities
Agency**

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Thank-you

Questions?

kristin@genomeatlantic.ca

