

People. Discovery. Innovation.
Les gens. La découverte. L'innovation.



Natural Sciences and Engineering
Research Council of Canada

Conseil de recherches en sciences
naturelles et en génie du Canada

Canada

Presentation Outline

- **NSERC – who are we?**
- **How to work with academia/industry**
- **Programs to fund the project**
- **A few examples**
- **Q & A**

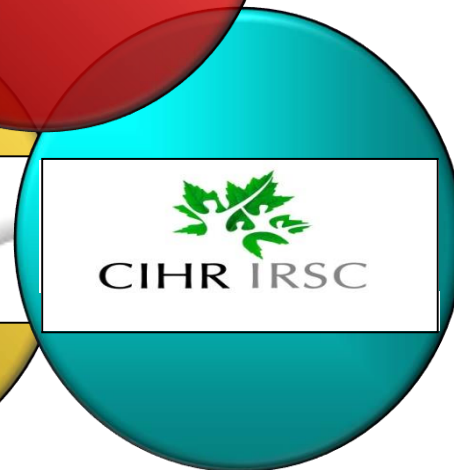


Federal Funding Agencies (aka the “Tri-Councils”)

***Natural Sciences &
Engineering***



***Social
Sciences &
Humanities***



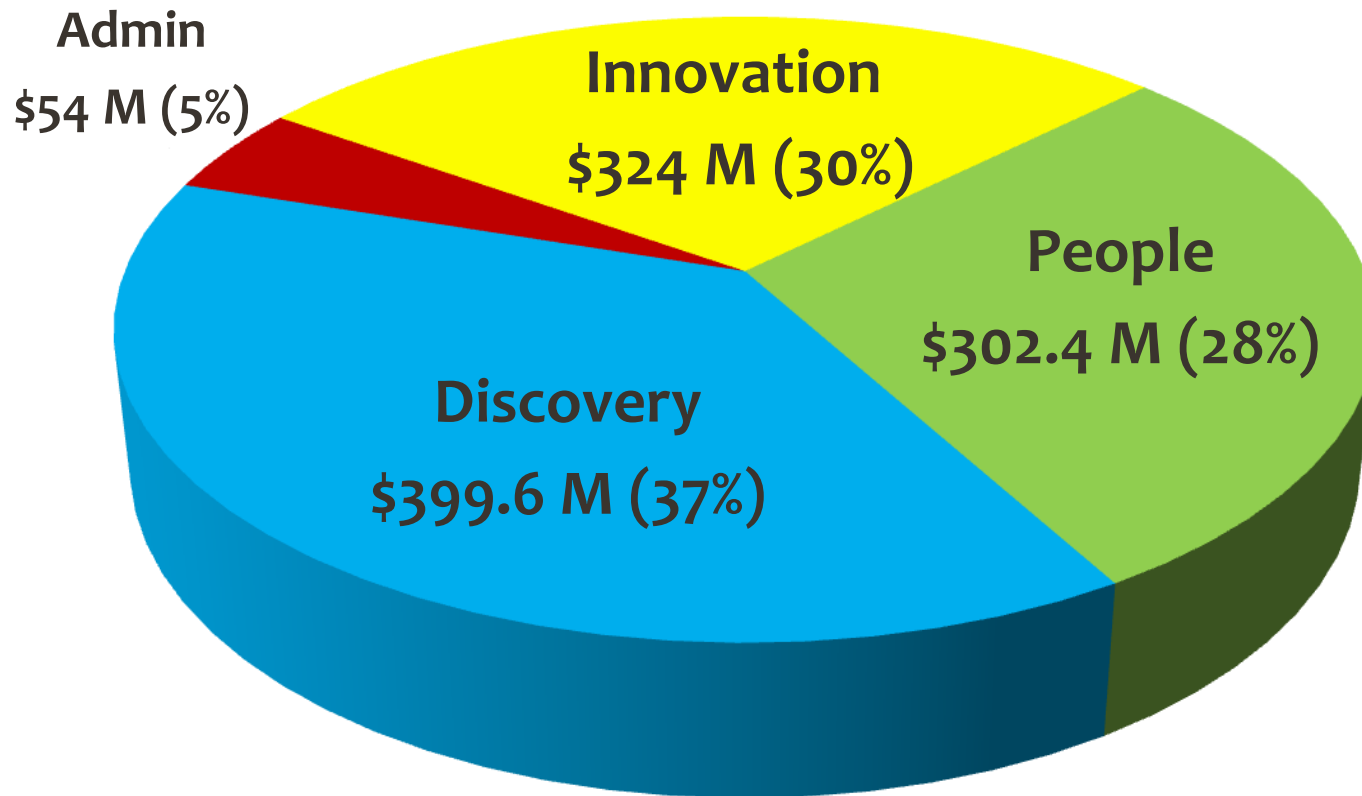
Health

NSERC Regional Offices



- Build relationships
- Strengthen innovation
- Increase awareness

NSERC Budget ... \$1.2 Billion



NSERC “Innovation” Grants

UNIVERSITIES				COLLEGES
STRATEGIC PARTNERSHIPS	INDUSTRY-DRIVEN COLLABORATIVE R&D	COMMERCIALIZATION	TRAINING IN INDUSTRY	COLLEGE AND COMMUNITY INNOVATION
Strategic Grants	Connect Grants	Idea to Innovation Grants	Experience Awards	Engage & EG+ Grants
Collaborative Health Research Projects	Engage & EG Plus Grants	Centres of Excellence for Commercialization and Research		College-University Idea to Innovation Grants
Automotive Partnership Canada	Collaborative R&D Grants			Innovation Enhancement Grants
Networks of Centres of Excellence	Industrial Research Chairs			
	Business-Led Networks of Centres of Excellence			



N SERC “Innovation” projects must involve a “partner”



A “partner” for NSERC is ...

- Canadian company
- **Multinational** – if R&D/Manufacturing in Canada
- **Public utility**
- **Not for profit ... Industrial Associations/Producer groups**
 - Not solely government supported
 - Research mandate
 - Capacity to disseminate results to members



Universities & Colleges in BC you can work with ...

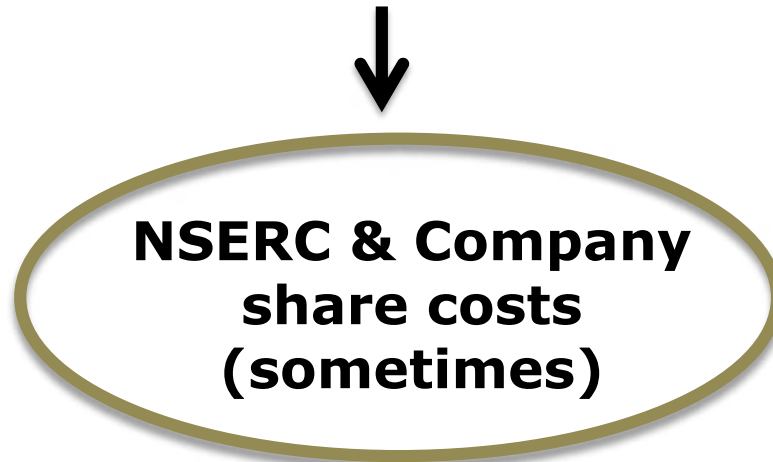
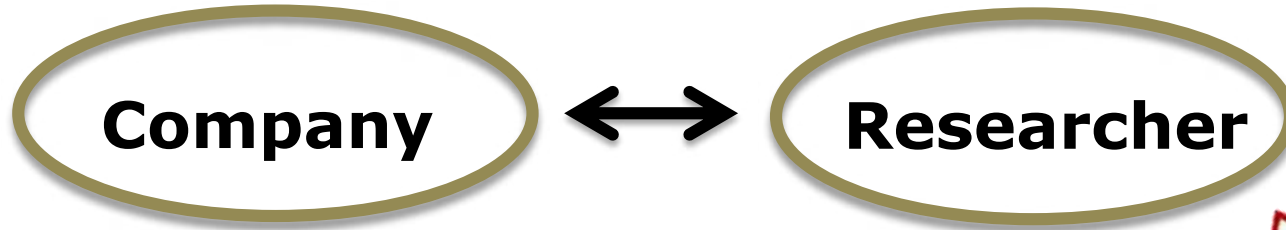
Universities

- Thompson Rivers University
- University of BC
- Simon Fraser University
- University of Victoria
- University of the Fraser Valley
- University of Northern BC
- Royal Roads University
- Trinity Western University
- Vancouver Island University
- BC Institute of Technology

Colleges

- Camosun College
- Douglas College
- Emily Carr University of Art & Design
- Justice Institute of BC
- Kwantlen Polytechnic University
- College of New Caledonia
- North Island College
- Okanagan College
- Selkirk College
- Yukon College
- Langara College
- Vancouver Community College
- College of the Rockies

How does it work?



Engage Grant ...



- New collaboration
- 6 month project
- No application deadline
- 4 week turnaround
- Up to \$25K from NSERC
- No cash from company
- Company owns the IP
- Company must meet ...

“2 and 2” rule

Engage – Mitacs Combo

Harmonized process of Engage and Accelerate to benefit your new collaborative research projects



\$25,000 for 6 months

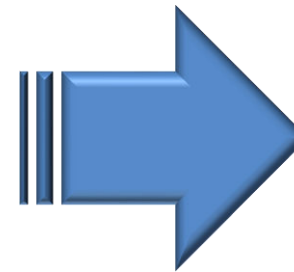


\$7,500 for 4-6 months

Company



\$7,500 for 4-6 months



*Minimum of
\$40,000 for the
project*

* Possible to fund several Accelerate units for bigger projects

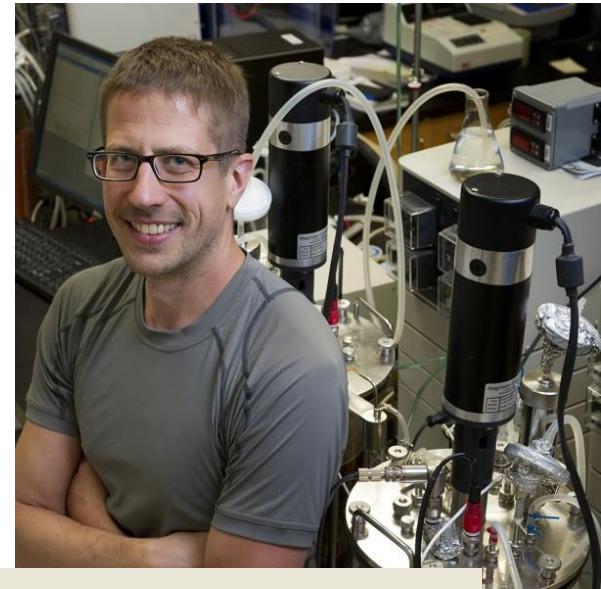


Engage Project

“Genomic, transcriptomic and metabolomic analysis of interacting brewer's yeast for directing development of new beer styles”

Researcher: Dr. Jon Van Hamme,
Dept of Biological Sciences,
Thompson Rivers U

Company:



Red Collar Brewing Co.



Engage Project

“Designing forest reclamation techniques for the tailings deposit at Mount Polley”

Researcher: Dr. Suzanne Simard
Forest and Conservation
Sciences, UBC

Company:



How do we continue the project?



Engage Plus Grant ...



- Engage project continues
- Same features as Engage (6 month project, IP belongs to company, quick application)
- Up to \$12,500 matching funds from NSERC (o/h and in kind not matched)

Engage → Engage Plus

“Use of selective genotypes in developing a native seed nursery for grassland restoration”

Researcher: Dr. Lauch Fraser
Dept of Biological Sciences,
Thompson Rivers U



Company :

KINDER  MORGAN

CRD Grant ...

- Multi-year projects (2-3 years on avg)
- Average \$80K per year from NSERC
- Company-specific problem
- IP ownership negotiated
- 3 - 6 month turnaround
- Shared project costs:

NSERC matches company cash + in kind

How does the leverage work ...

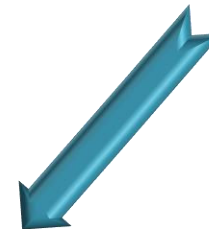
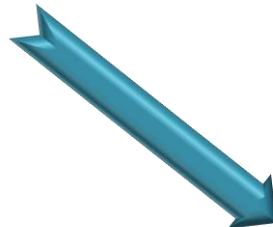
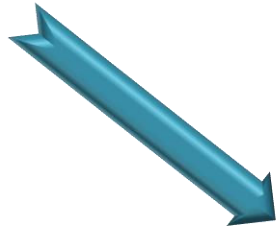
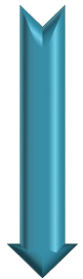
Company

NSERC

\$60K In-kind

\$120K Cash

\$60K Cash



**+\$15K for Overhead
(\$75K total)**



CRD

\$180K cash project

Engage CRD

Researcher: Dr. Rob Britton,
Dept of Chemistry, SFU

Company :



Engage: *“Structural identification of oxidized monoterpene semiochemicals for monitoring and control of bark beetles”*

CRD: *“Discovery of oxidized monoterpenes for bark beetle management”*

Engage CRD



Researcher: Dr. Nicholas Coops
Faculty of Forestry, UBC

Company :



Project: *“Assessment of advanced remote sensing data for urban tree detection and condition assessment”*

Experience Grant ...

- 16 week work term at company for undergraduate students (often co-ops)
- Company reimbursed \$4500 from NSERC
- Companies can have 15 per year
- Excellent recruiting tool



Connect Grants ...

- Funds to support university and college researchers to connect with industry
- Support travel, events, and workshops in Canada
- Three levels of support:
 - Level 1: up to \$5,000 for travel
 - Level 2: up to \$10,000 for regional events
 - Level 3: up to \$25,000 for research planning workshops



What are companies saying?

NSERC programs help them:

- Stretch their R&D \$
- Find solutions to their technical problems
- Access resources ... knowledge, facilities, equipment
- Enhance in-house skills and knowledge
- Link to other experts and companies
- Attract future employees





Questions?

CANADA



**A COOL PLACE TO DO RESEARCH
UN EXCELLENT PÔLE DE RECHERCHE**

Reach me at ...

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