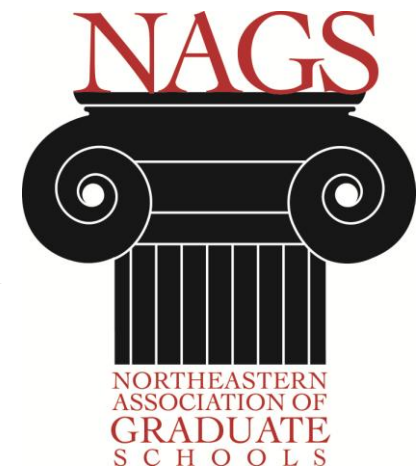


Connecting Industry with University Expertise

Jesse Vincent-Herscovici
Director, Strategic Accounts and
Business Development



Current Reality/context

- Canada's goal is to transition from a primarily resource economy to a knowledge-based economy
 - Therefore need knowledge workers
- Canada increased the number of PhDs by 13% between 1998-2006 (22% in the U.S.)
 - OECD countries on average increased by 40% in same period
 - Fell from 20th to 23rd in PhD graduates per million b/w 2002 and 2008
- Top 10 “in demand” jobs in 2010 did not exist in 2004
- Canada ranked 15th out of 18 peer OECD countries in labour productivity.
 - *“relatively weak commitment to training and skills development compared to some of its key trading partners”*

But, what about...?

Mitacs

Inspiring innovation
Inspirer l'innovation

**The
Economist**

The disposable academic Why doing a PhD is often a waste of time

Dec 16 2010

“There is **an oversupply of PhDs**. Although a doctorate is designed as training for a job in academia, the **number of PhD positions is unrelated to the number of job openings**. Meanwhile, **business leaders complain about shortages of high-level skills**, suggesting PhDs are not teaching the right things. The fiercest **critics compare research doctorates to Ponzi or pyramid schemes**. “



So the big question:



Inspiring innovation
Inspirer l'innovation

Are we producing too many PhD's?

Countries with high PhD graduation rate rank highly on business expenditures on R&D and patents (ex: Switzerland, Sweden, Germany)

The real question is: “Why are our PhDs not getting jobs?” and “What can we do about it?”

In 1986, 34% of PhD holders obtained faculty positions. In 2001 it was 24%. Today it is estimated at well under 20%.

We are no longer educating for academic jobs only

Next logical questions:

- Are we providing our PhDs with business and professional skills to prepare them for non-academic careers?
- Are we designing and adapting programs to quickly respond to new emerging areas?
- Are we creating demand for PhD graduates in industry?
- How are we showcasing the value of university research to industry and growing networks between the two communities?

Who is **Mitacs** ?



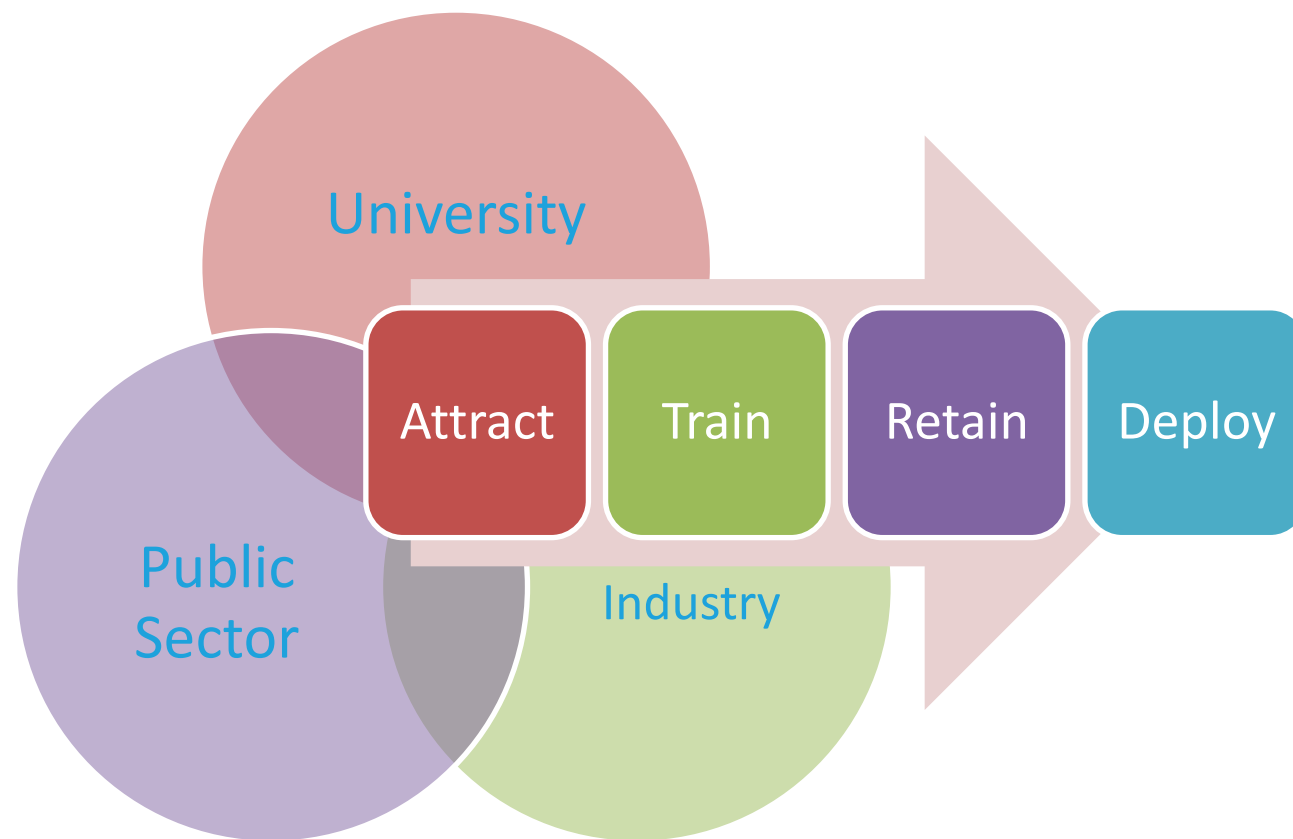
A national non-profit organization who aims to foster industrial innovation and the knowledge-based economy.

- Founded in 1999
- Financed by the federal and provincial governments, as well as Canadian universities and private enterprise
- Have access to all university disciplines, across the country

The Mitacs mandate



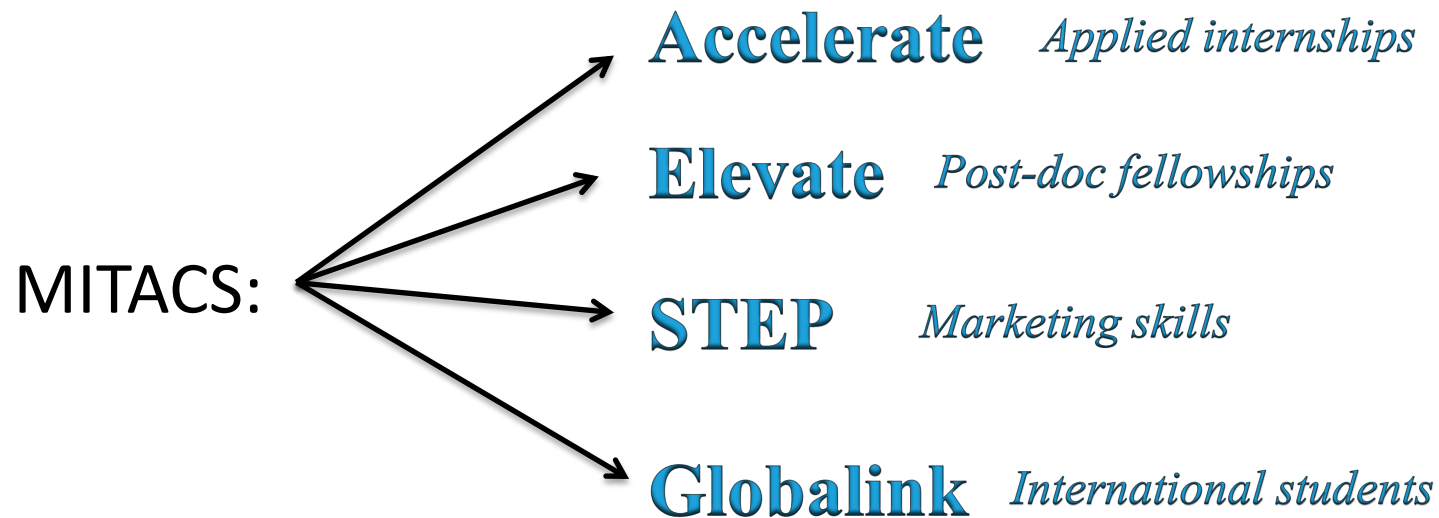
Inspiring innovation
Inspirer l'innovation



Mitacs Programs...



Inspiring innovation
Inspirer l'innovation



- Attracts the cream-of-the-crop of international research students
 - Minimum requirement to qualify: 8/10 Cumulative Grade Point Average
- Recruitment of international students/candidates for internships with a university researcher (Globalink 1); retention of these candidates through applied projects in the context of graduate or postgraduate studies, in partnership with industry (Globalink 2)
- 2010-11 : recruitment from China; Brazil and India (>200 interns)



Mitacs programs...



*Inspiring innovation
Inspirer l'innovation*

Mitacs Accelerate:

- Financing of applied research projects executed by graduate and post-graduate interns
 - Possibility to include undergraduates
- Access to universities across the country
 - All Canadian research-based universities are a member of Mitacs
- Access to all university disciplines
- Same platform for smaller, single intern projects as for large multi-year, multiple intern



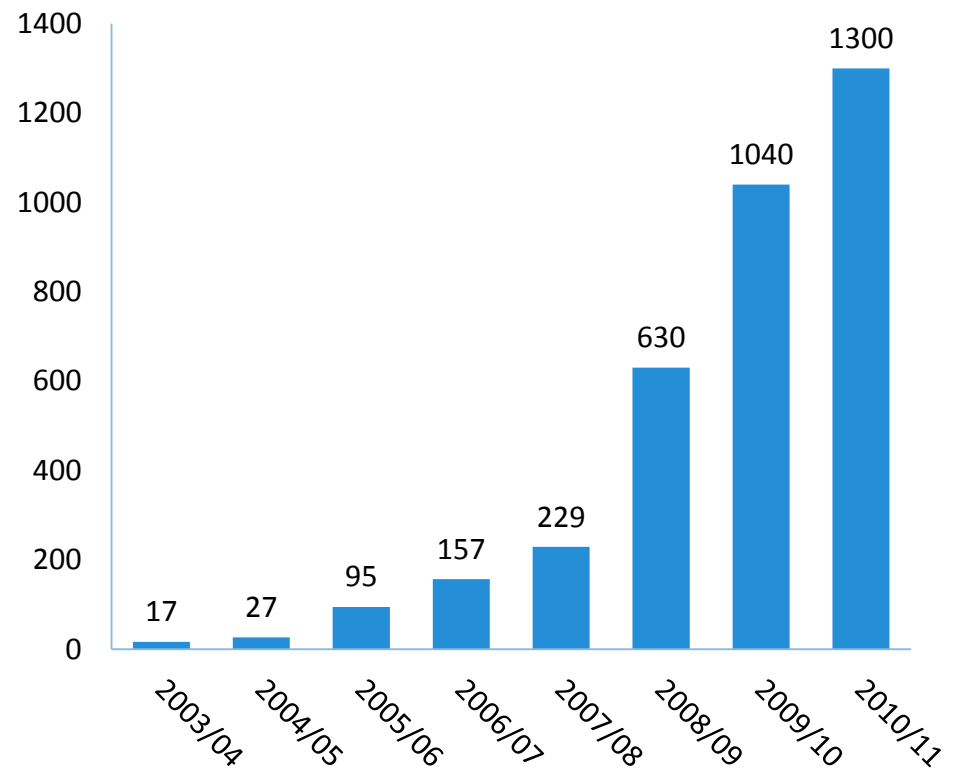
Accelerate Successes



Inspiring innovation
Inspirer l'innovation

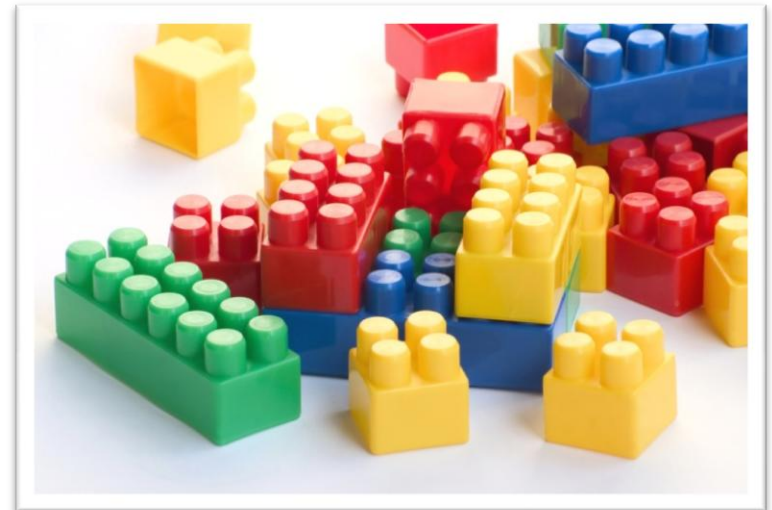
- Since 2003: over 5200 internships Canada-wide
- In 2010/2011:
 - Canada-wide: 1358 internships totalling **\$19.4M**
- Two-year post-internship survey: 33% employed
 - Remainder at university finishing degree / moved to PhD or Post-Doc
 - 95% of partners planning to use project results
 - 97% of partners felt the project was beneficial

Number of Internships per Year



Acquiring important interpersonal and professional skills that complement academic training

- 14 workshops for graduates in :
 - ☐ Project management
 - ☐ The ABC's of the business world
 - ☐ Communications
 - ☐ Entrepreneurialism and intellectual property



Step program - Professional skills training for graduate students

- ~300 courses given annually (BC, AB, SK, ON, NS + QC pilots)
- Cohort approach (inter-disciplinary)
- Have started to combine programs (ex: Accelerate/Elevate with Steps)
 - Custom design an « à la carte » menu of professional training

Outcomes

- Equip graduates with a suite of non-technical skills to help them hit the ground running
- Encourage and support entrepreneurship and innovative thinking

Special Thanks to Our Funding Partners



*Inspiring innovation
Inspirer l'innovation*



Government of Canada
**Networks of Centres
of Excellence**

Gouvernement du Canada
**Réseaux de centres
d'excellence**

Through the Industrial R&D Internship Program

**Government
of Alberta** ■



Saskatchewan
Ministry of
Advanced Education,
Employment and
Labour

Some of Mitacs partners...

Mitacs

Inspiring innovation
Inspirer l'innovation



SIMPLY SECURE COMMUNICATIONS

www.mitacs.ca

Contact info:



*Inspiring innovation
Inspirer l'innovation*

Jesse Vincent-Herscovici
Director, strategic accounts
and business development

JVH@Mitacs.ca

Mobile: 514-865-4228

Headquarters:

Vancouver, BC

Suite 301,
Technology Enterprise Facility
6190 Agronomy Road
Vancouver
Ph: 604.822.9189

Regional offices:

Montréal, QC Office:

Institute for Aerospace Research
Room 421, 5145 Decelles Av
Montreal, QC
Ph: 514.316.9197

Toronto, ON Office:

York University
Suite 353, York Lanes
4700 Keele St.
Toronto, ON
Ph: 416.650.8445

Fredericton, NB Office:

Suite D114, Gillin Hall
540 Windsor Street
Fredericton
Ph: 506.458.7280

St. John's, NL Office

S. J. Carew Building,
Room EN 3013
240 Prince Philip Drive
St. John's, NL
Ph: 709.725.9253

* Note that Alberta and Saskatchewan offices will be opened shortly *