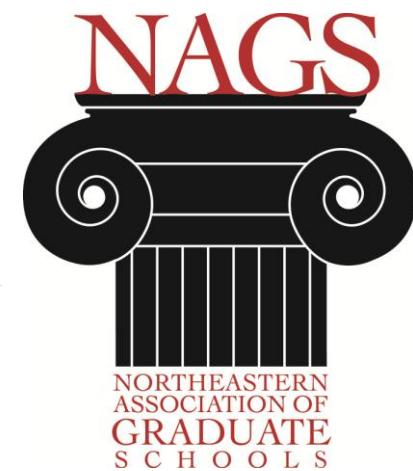




Inspiring innovation
Inspirer l'innovation

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...?



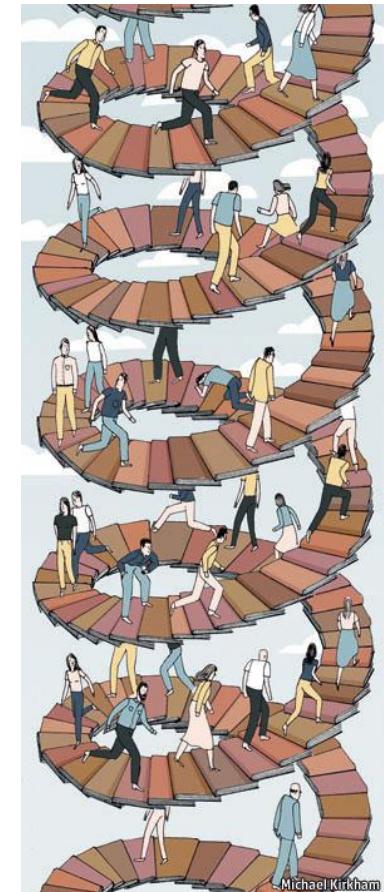
Inspiring innovation
Inspirer l'innovation



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. “



Answer the big question:



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** ?



*Inspiring innovation
Inspirer l'innovation*

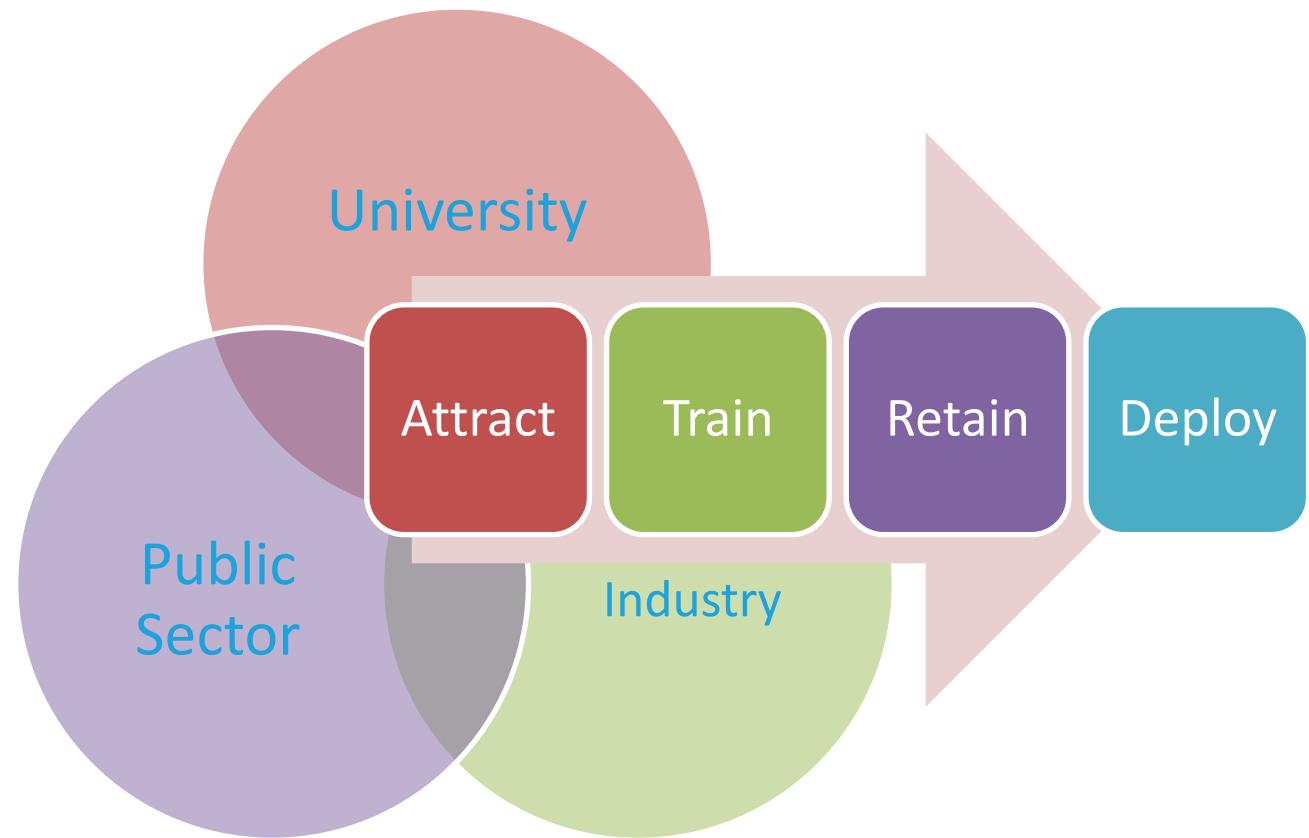
A national non-profit organization who aims to foster industrial innovation and the knowledge-based economy.

- 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



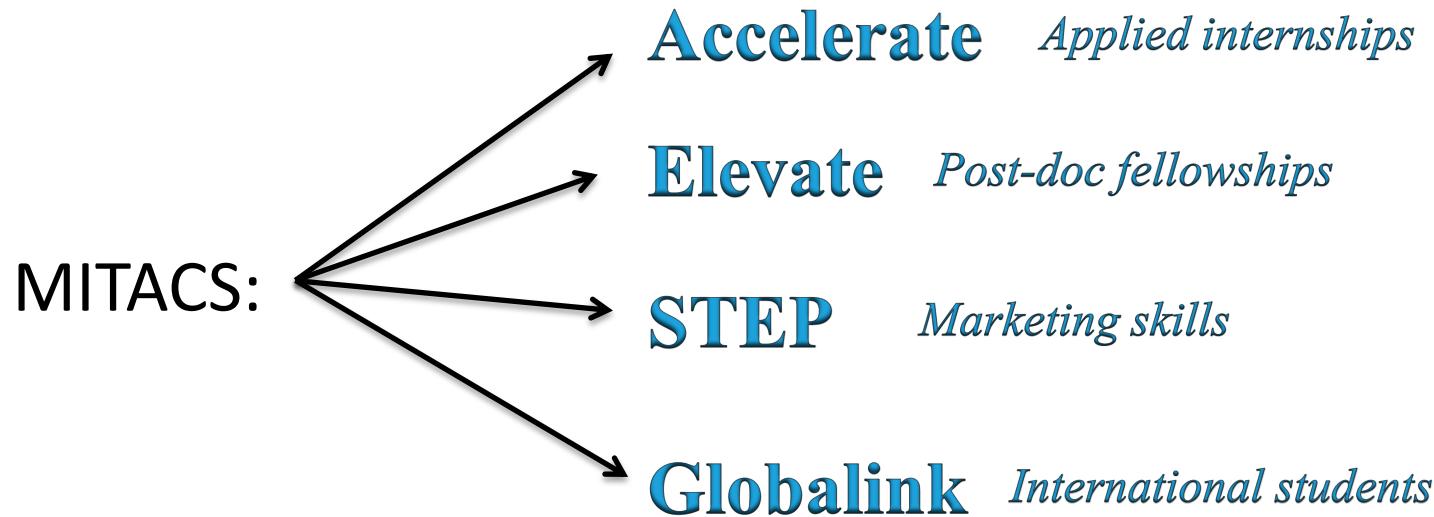
Inspiring innovation
Inspirer l'innovation



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 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

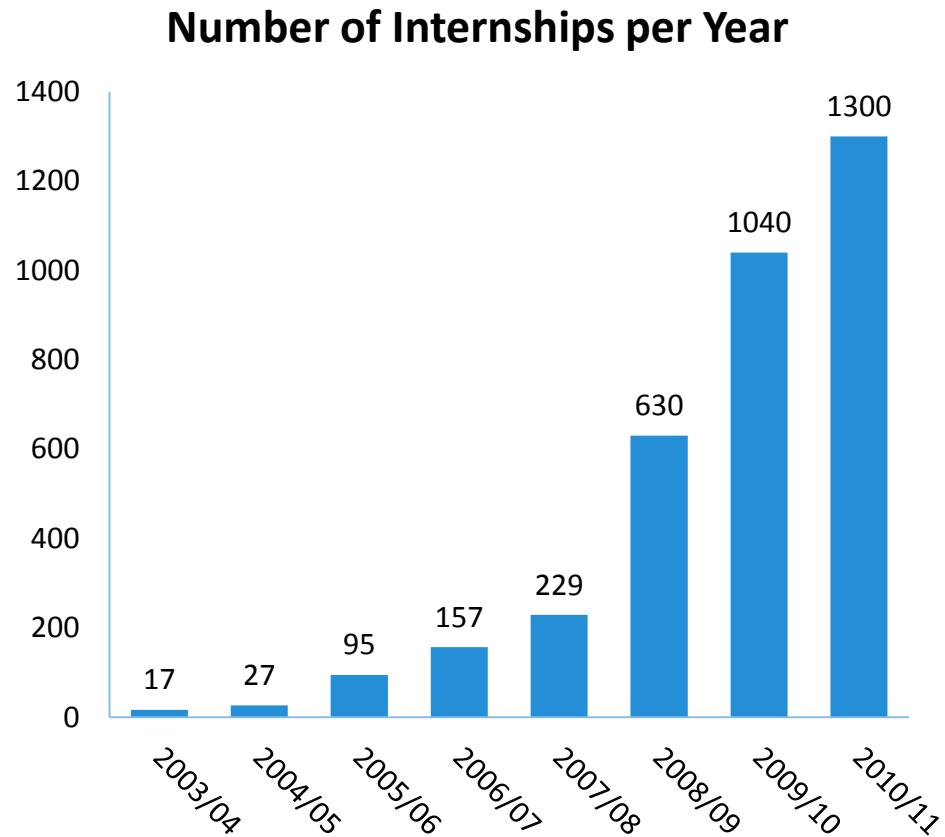


Accelerate Successes



*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



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



Steps cont'd...

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** ■



The Best Place on Earth

Manitoba ■

 **New Brunswick** Nouveau
Brunswick

 **Newfoundland
Labrador**

 **NOVA SCOTIA**

 **Ontario**

Québec ■ ■ ■

- Ministère du Développement économique,
de l'Innovation et de l'Exportation
- Fonds québécois de la recherche
sur la nature et les technologies



Saskatchewan
Ministry of
Advanced Education,
Employment and
Labour

Some of Mitacs partners...



Inspiring innovation
Inspire l'innovation



The miracles of science™



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

Fredericton, NB Office:

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

Toronto, ON Office:

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

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 *