

Mitacs

*Inspiring innovation
Inspirer l'innovation*

Mitacs: Funding Opportunities for New Faculty

Javier Cuervo, PhD
Director, Business Development – Edmonton

New Faculty Forum, Feb 26th 2013
University of Alberta



About Mitacs, Inc

Mitacs

*Inspiring innovation
Inspirer l'innovation*

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

- Support projects between academia & industry
- Funded by the federal and provincial governments, Canadian universities and private enterprise
- Open to all disciplines & sectors
- Diversified funding



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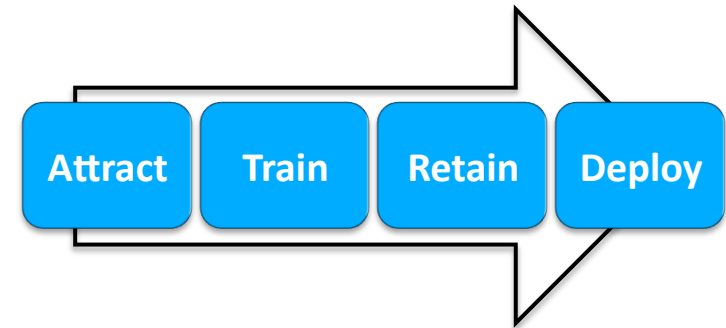


Mitacs Programs

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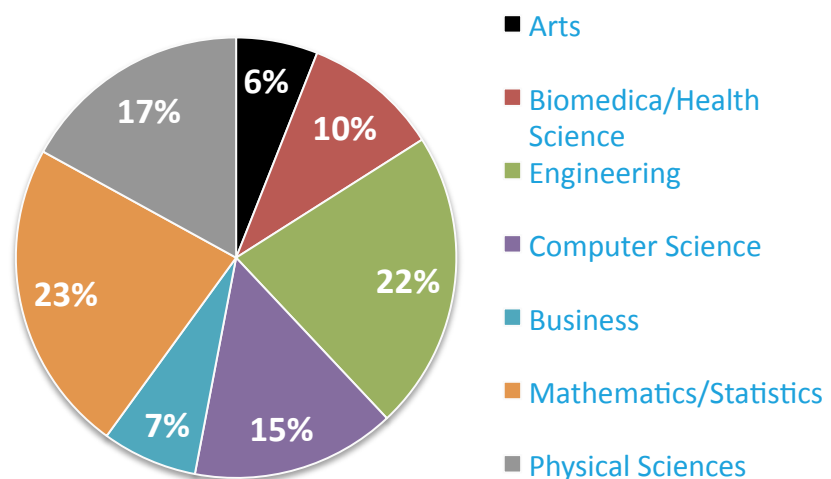
- Accelerate
 - Grad student and post-doc research projects / internships
- Accelerate inDev
 - Grad students working on development projects
- Elevate
 - Post-doctoral fellowships
- Globalink
 - International undergraduate student research projects at Canadian universities
- STEP
 - Soft skills training for grad students and post-docs



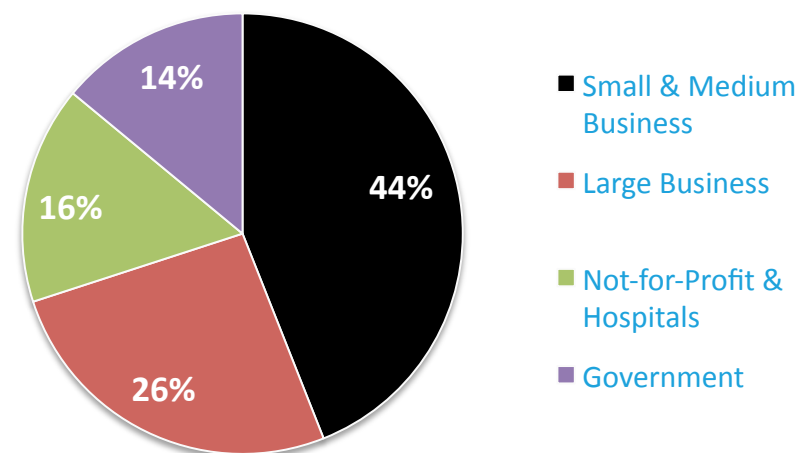
The Mitacs Network

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**Mitacs researchers
by discipline**



**Mitacs partners by
size**

Collaborative Research Program



Mitacs Accelerate

Objective

- To support multi-disciplinary applied research collaborations between university researchers and industrial partners

Adopted model

- Collaborative research projects are made up of multiples (blocks) of 4-month internships
- Scalable to support large, complex projects



Accelerate: Funding Research Collaborations



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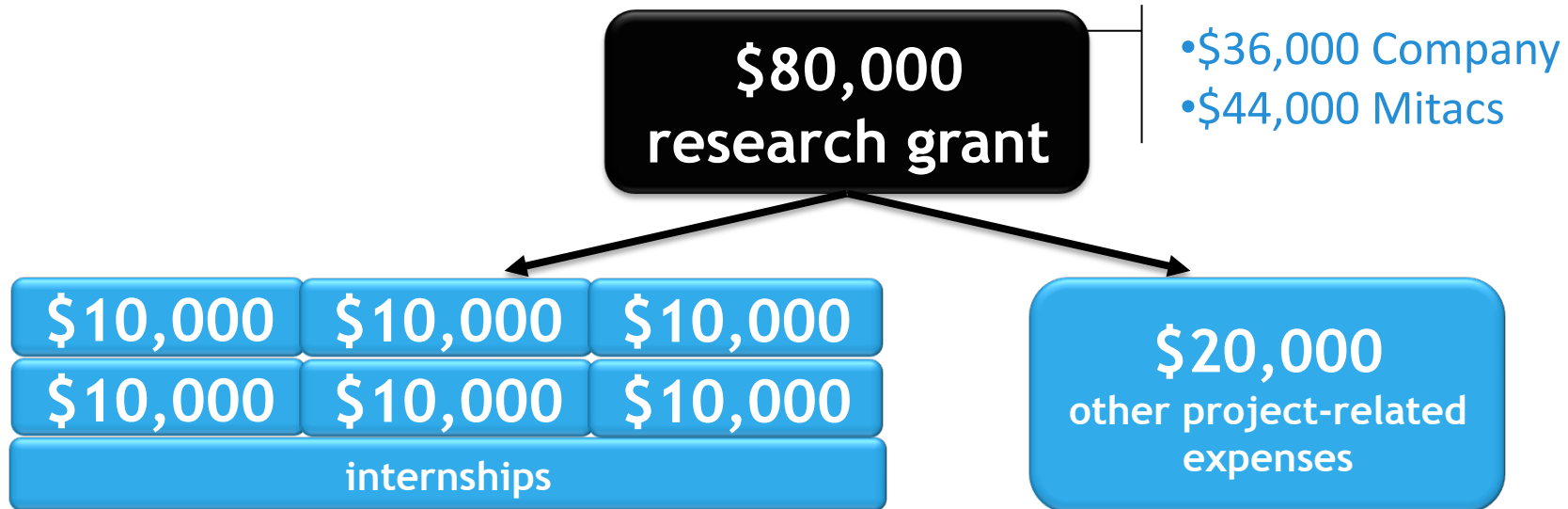


- 1:1 matching to fund applied research
 - Student spends approx. half time at company, half time at university
 - Travel subsidies available
-

Accelerate: Funding – *CLUSTERS*

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- Extra leverage for medium to large projects
 - Minimum: 3 students (scalable)
 - Minimum total funding: \$80K (6 blocks + \$20K flexible)
 - Scalable: each additional \$18K from industry generates \$22K from Mitacs
-

Advantages



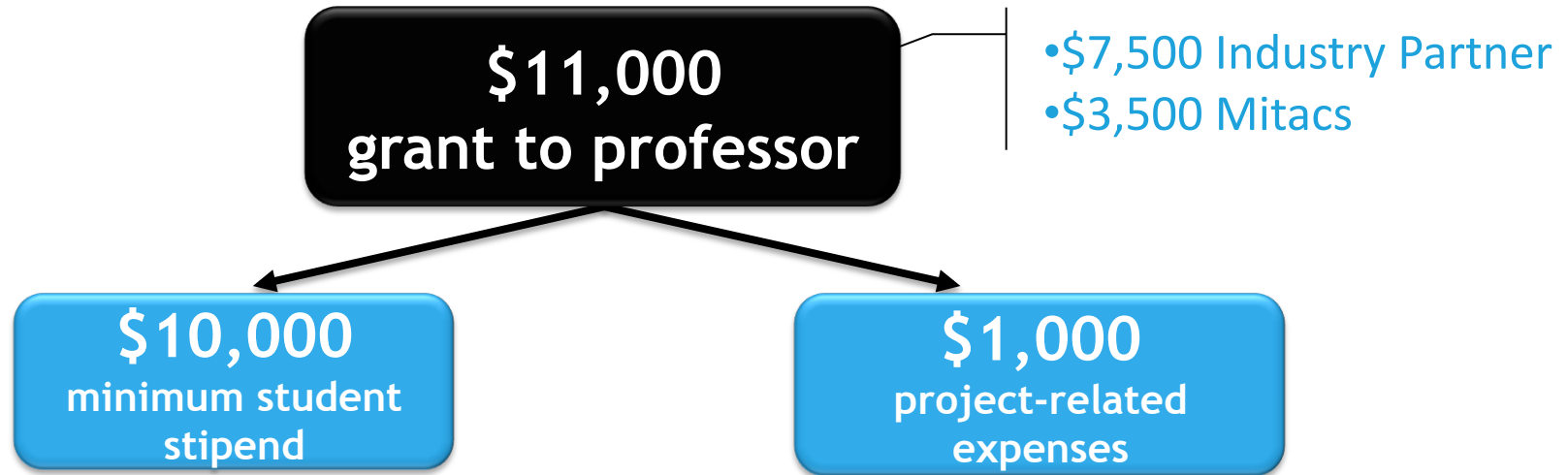
Mitacs Accelerate

- Clusters: \$1.22 to industrial partner \$1
- Projects support all academic disciplines
- Mitacs helps with application prep and filing
 - 96% success rate
- Great recruitment tool for companies
- SR&ED tax credit eligible
- Companies use as recruitment tool
- Fast turn around: application review in 6 weeks

PILOT: Accelerate Development



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- Student spends approx. 80% time at company, 20% time at university
 - 4-month internships with a max. of 2 per intern
 - Seeking joint-funding
-

Success stories

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Efficient computational tools for magnetic reconstruction and image decomposition

Partner: TerraNotes LTD

Professor: Yau-Shu Wong (Math)

TerraNotes
GEOPHYSICS

Evaluation of fiber-reinforced polymer composite tubulars for high-temperature environment operation

Partner: Schlumberger Canada.

Professor: Pierre Mertiny (Mech. Eng)

Schlumberger

Success stories

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A camera stabilization gimbal system for a small unmanned aerial vehicle

Partner: **ING Engineering**

Professor: **M. Lipsett (Mech. Eng)**

ING ENGINEERING
UNMANNED SYSTEMS. DELIVERED.

Calcium Supplements: Elemental Bioavailability and uptake by bone

Partner: **Sinoveda**

Professor: **M. Doschak (Pharmacy)**

sinoveda

Mitacs programs

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Elevate

- New PhD graduates are placed in industry to lead projects of a larger scope, under the supervision of their professor, while deepening their private-sector skills
- 80% of their time is spent working on the project, 20% is spent deepening their business skills.
- \$25K/yr from industry
- \$32,500/yr from Mitacs
- Next call end of Q1 2013



Step

- Acquiring important interpersonal skills in entrepreneurialism and project management

Workshops for graduates

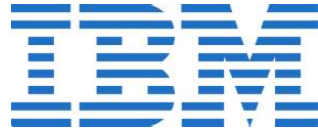
- Project management
- The ABC's of the business world
- Communications
- Entrepreneurialism and intellectual property



Industry Partners

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Schlumberger



AIR CANADA



Algorithmics
Incorporated



Direct Energy



The miracles of science™

PACICC



TOSHIBA

Leading Innovation >>>



MERCK FROSST



Husky Energy



CANADIAN WESTERN BANK
Think Western®



Special Thanks to Our Funding Partners

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Government of Canada

Gouvernement du Canada

**Networks of Centres
of Excellence**

**Réseaux de centres
d'excellence**

Through the Industrial R&D Internship Program

**Government
of Alberta** ■



Manitoba 



- 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

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