Partnering for Innovation

Christine Macdonald, P.Eng, MBA, PMP, Director, Business Development & Team Lead – Ontario

Kristin Spong, PhD, Business Development Specialist, Kingston
Why Mitacs?

- National research network
- 18 years in operation
- 20,000+ research collaborations
- 60+ academic partners
Mitacs by the Numbers

- $145M in private-sector and not-for-profit investment
- 4,250+ industry partners
- 33,000+ students career-ready
- 60+ university partners
- 20,000+ innovative research collaborations
- 3,600+ international student research internships
- 1,450+ professional skills workshops

Current at March 31, 2017
Why Mitacs?

Program growth

Mitacs research collaborations

0 1000 2000 3000 4000 5000 6000

03/04 04/05 05/06 06/07 07/08 08/09 09/10 10/11 11/12 12/13 13/14 14/15 15/16 16/17

18 30 85 170 240 675 1060 1544 1576 2109 2804 3946 4825 4999
Why Mitacs?

The Mitacs network

- Small & medium business
- Large business
- Not-for-profit organizations

✓ Computer science
✓ Engineering
✓ Anthropology
✓ Economics
✓ Chemistry
✓ Geography
✓ Health sciences
✓ Genetics
✓ Social work
✓ Forestry
✓ History
✓ Languages & linguistics
✓ Mathematics
✓ Business
✓ Education
✓ Interactive arts
✓ Psychology
✓ And more...
Mitacs program goals

- Support flexible, collaborative research projects
- Attract new funding
- Maintain high-quality research
- Support all disciplines
- Support international research collaborations in Canada and abroad
- Train graduates and postdocs for their careers
Building research collaborations

- Small and large-scale, multidisciplinary projects defined by industry or non-profit partner
- From $15,000 to $2M+ in funding
- Supports grad students and postdocs in all disciplines
- Non-competitive: apply any time
- Peer reviewed; quick turnaround
Standard model: One Internship Block

- Intern’s time is split ~50/50 between company and university
- Focus of work at both sites is on joint project
- Overall project length and scope collaboratively defined by non-academic partner and academic supervisor
- Project application can be prepared in advance of student arrival
- Extension to several blocks possible
  - Masters Student - 2 blocks
  - PhD Student - 6 blocks
  - Post-Doc - 6 blocks

Funding

- $7,500 Partner
- $7,500 Mitacs
- $15,000 Over 4-6 months

$10,000 minimum intern stipend
$5,000 other project-related expenses
Cluster model:

- 6 or > internships
- 3 or > interns
- Better leveraging (1:1.22 matching)
- $6,000 partner and $7,333 from Mitacs

$80,000 research grant
($36,000 Partners
$44,000 Mitacs)

$20,000 other project-related expenses

$10,000 internship

$10,000 internship

$10,000 internship

$10,000 internship
Accelerate - Building research partnerships

Project Example:

Fostering Corporate Productivity through Creativity and Intuition

Juniper in Montreal
Queen’s Psychology Professor

Psychology PhD Candidate

CANADIAN INDUSTRY & COMMUNITY ORGANIZATIONS

CANADIAN UNIVERSITY

Single 4 month internship
Accelerate - Building research partnerships

Project Example: The Advanced Analytics Initiative

Cutting-edge research using ‘big data’, data analytics, machine learning and other novel approaches to health solutions for Canadian military personnel, Veterans and their families.

IBM Canada

Post-Doctoral (5)
PhD (1)
Masters (4)

Queen’s/CIMVHR, Western
University of Manitoba

CANADIAN INDUSTRY & COMMUNITY ORGANIZATIONS

CANADIAN UNIVERSITY

2 year cluster project – 44 internship units
Accelerate - New opportunity

Masters and PhD Fellowships

- To support identified students for a significant portion of their degree
- Professional development training component for the fellows
- Better leveraging of partner funds (i.e. cluster funding model)

<table>
<thead>
<tr>
<th>Fellowships</th>
<th>Master’s</th>
<th>PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project length</td>
<td>18 months</td>
<td>36 months</td>
</tr>
<tr>
<td>Total research award</td>
<td>$40,000</td>
<td>$80,000</td>
</tr>
<tr>
<td>Minimum intern stipend</td>
<td>$30,000</td>
<td>$72,000</td>
</tr>
<tr>
<td>(Partner organization contribution)</td>
<td>$18,000</td>
<td>$36,000</td>
</tr>
<tr>
<td>Partner organization contribution</td>
<td>$18,000</td>
<td>$36,000</td>
</tr>
</tbody>
</table>
Partners

- Business with facilities operating in Canada
- For-profit and crown corporations
- Domestic or foreign-owned
- Eligible not-for-profits
  - Projects must demonstrate economic or productivity orientation
  - Must be incorporated as a not-for-profit organization

Unsure? Ask us
Creating research leaders

Mitacs Elevate

Next call opens May 2018!

- Develop a research leader for your group
- Two-year fellowship for postdoctoral fellows that includes research management training
- Includes a research collaboration with for-profit or not-for-profit sector partner
- Open to any discipline
- Competitive applications

www.mitacs.ca
Annual Contributions*

- $30,000 Partner
- $25,000 Mitacs (+$7,500 value in training)
- $5,000 University

*per year over two years
International opportunities

- Provides funding for international research collaborations in Canada and abroad, with universities and companies
- Showcases Canadian research landscape to international students
- Supports international research abroad for students in Canada
Two-way research mobility

Research Internship
Graduate Fellowship
Research Award
Accelerate International

Research Award
Accelerate International
Accelerate International

- Research collaborations between international companies and grad students, faculty at Canadian universities
- $15K per project
- 16–24 weeks (75% abroad, 25% home university)
- All disciplines, no application deadlines
- Any country
Mitacs Globalink

Globalink Research Award

- Bilateral research collaborations for senior undergraduate and graduate students with universities abroad
- International collaborations
- Opportunities with Mitacs partner countries
- 12–24 weeks
- From $6K in funding
*Mitacs Partner countries*

- Australia
- Brazil
- China
- EU members
  - France, Germany, etc.
- India
- Israel
- Japan
- Korea
- Mexico
- Norway
- Saudi Arabia
- Tunisia
- U.S.A.
- United Kingdom
- Ukraine
Mitacs PhD Award for Outstanding Innovation

Caitlin Miron, PhD student
Anne Petitjean Group, Department of Chemistry,
Queen’s University

In collaboration with the European Institute of Chemistry and Biology in France, and with support from a Mitacs award, Caitlin broke new ground in the biochemistry world with her discovery of a DNA binder that could ‘switch off’ cancer cells and prevent them from spreading.

http://www.queensu.ca/gazette/stories/outstanding-innovation-cancer-research
Mexico-Cuba Bilateral Relations After El Bache: The Role of International Visual Art Exhibitions.

Participants:
Queen’s Cultural Studies & Universidad Nacional Autónoma de México

Project scope:
“...to obtain and analyze archival material pertinent to the exhibition Cuba: Imagen y Posibilidad, a large Cuban photographic exhibition viewed by three million visitors to Mexico City's Galerias Abiertas de las Rejas de Chapultepec during 2009. This exhibition is central to my doctoral research, as it outlines the complexities of Cuba-Mexico bilateral relations as established through the' employment of international visual art exhibitions”
Canadian Science Policy Fellowship

- Enhance relationships between policymakers & researchers
- Fellowships are a 12-month immersion into government
- Mitacs provides specialized training & networking opportunities
- Pilot year: 7 federal host offices, 11 fellows
  - 5 remaining in policy, 3 returning to academia, 3 pursuing other opportunities
- Open to PhD holders in all academic disciplines
  - January – February call for fellow applicants
Contact us with questions!

Kristin Spong
kspong@mitacs.ca
613-217-8703
www.mitacs.ca

Christine Macdonald
cmacdonald@mitacs.ca
647-221-5709
www.mitacs.ca

Thank you