Supporting Collaborative Research & Student Training

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Business Development Specialist
About Mitacs

- National research network (non-profit)
- 16 years in operation
- 61 university partners
- 12,000+ projects to-date connecting universities to business innovation
Our Mandate

- **Foster** innovation in Canada through national and international research collaborations
- **Connect** universities with private sector opportunities for world class research across *all disciplines*
- **Train** highly qualified personnel to advance industry innovation and research excellence
Mitacs by Numbers

Why Mitacs?

$90M
PRIVATE SECTOR INVESTMENT

12,000 +
INNOVATIVE RESEARCH PROJECTS

3,000 +
INDUSTRY PARTNERS

37 +
RESEARCH ORGANIZATION PARTNERS

25,000 +
STUDENTS CAREER-READY

2,200 +
INTERNATIONAL STUDENT RESEARCH INTERNSHIPS

60 +
UNIVERSITY PARTNERS

1,100 +
PROFESSIONAL SKILLS WORKSHOPS

$1.8 Million
Identify research challenges

Industry-applicable research

Collaboration

SPONSOR PARTNER

- For-profit
- Not-for-profit
- Government
- NGO

Masters, PhD, postdoc

UNIVERSITY

- Any discipline
Building research collaborations

- Research funding from 4 months to 3 years
- Masters 1 year, PhD and postdocs 3 years
- Non-competitive: apply any time
- 3 to 6 weeks for evaluation
- Peer reviewed
Mitacs Accelerate

Funding cycle

4-6 months
4-6 months
4-6 months
4-6 months
4-6 months

= $15,000

$5,000

Min: $7500

$90,000

Min: $7500

$5,000

INDUSTRY

$10,000

UNIVERSITY
Creating R&D leaders

Next deadline
Oct 23rd

- For postdoctoral fellows
- Two year $110,000 fellowship
- Competitive applications
- Research collaboration with private sector
- Professional skills development
- Open to any discipline
Connecting global industry with Canadian innovation

- Build and support collaboration between MNE, Canadian SME and Canadian researchers
- Enable supply chain development in Canada
- Facilitate investment in Canadian R&D
- Generate opportunities for Canadian talent
International Research Collaborations

- International research collaborations for senior undergraduate and graduate students
- Partner countries: Brazil, China, India, Mexico, Turkey, France, Saudi Arabia, Germany, Tunisia, and Vietnam
- Australia, Japan, and Korea are in negotiations
Two-way research mobility

- **Research Internship**
  3 month research project

- **Graduate Fellowship**
  $10000/yr for 3 years

- **Research Award**
  $5000 3-6 month project

- **Partnership Award**
  $15000 4-6 month project
Professional Development Training

-Taught by industry professionals
-For graduate students and postdocs
-Transferable skills increase employability
-No charge to participants
-Workshops include: leadership, management, communications, relationship building, entrepreneurialism
Our Funding Partners
Nolan Beise

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Outcomes
Outcomes: Academic Experience

➤ 96% of interns would recommend the program

➤ Most interns feel more employable
  – Acquisition of professional experience
  – Expanded professional network
Outcomes: Employment

- 51% of interns working in industry
  - 46% interns were hired by their partner company
  - 67% working in R&D

- 19% of internships led to the creation of a new position
Outcomes: Retention

- 91% Currently live in Canada
- 87% attribute their Mitacs participation with an increased satisfaction with their stay
- 93% would recommend Mitacs to students from their home country
Project Examples
Health Care

Dr. Debra Sheets

Dr. Stuart MacDonald

Developing a frailty index that uses data acquired over time to more efficiently and accurately predict potential cognitive and functional impairments.
“Community Catalyst” implementation framework that identifies programs champions in both the community and schools and supports them to act locally to enable high quality WITS program implementation and scale up.
Overall aim of the research is to increase the influence of citizens in governance activities in Vietnam through bilateral development assistance from Canada.
Health Care Reform

exploring how complexity in health care delivery systems impact and influence leadership development outcomes

Dr. Silvia Vilches

Dr. Ronald Lindstrom
Alternative Energy

Creating a scalable, flexible, light and low cost autonomous energy system
Water Purification

Next Generation UV Disinfection for Wastewater Treatment
High Rise Construction

Constructing building to withstand earthquakes and optimize leasable space
Data Science

Victoria-based start-up technology to manage mobile experience. Founders are Mitacs Accelerate internship program alumni.
Computer Graphics & Visual Effects: Computational Fluids & Smoke

Dr. Robert Bridson, Visual Effects Research, Fluid Simulation
IMAGER Lab @ University of British Columbia, Vancouver BC

- Film credits: The Hobbit, Avatar, Harry Potter, Star Wars
- Microsoft Studio (Vancouver BC)
- Adapting algorithms for real-time games applications

Best Poster Award – SCA 2013
Petrochemicals

Application of Spatial Statistics to Quantify Mixing and the Potential for Chemical Reaction
MoleScope™ from research at SFU is designed to help track and monitor moles over time for skin cancer prevention.
Ezibreath Medical Technologies

Designing algorithms for analyzing COPD patient's sleep data for patient treatment. Data to be gathered by a novel wearable wrist actigraph with high accuracy.
Research Internship for Summer 2016

Profs submit projects: May - Jun

Students submit applications: Jun - Sept

Profs and students matched: Sept - Jan

Internship logistics confirmed: Jan - Apr

Internships start: May - Sept 2016

June 18th is the last day to submit your projects!