CONNECTING
YOU
TO PRIVATE & NOT-FOR-PROFIT SECTOR OPPORTUNITIES

Mitacs

SEPTEMBER 9TH, 2016

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FUND COLLABORATIVE RESEARCH PROJECTS
WHY MITACS?
MITACS BY NUMBERS

- **$90M** Private Sector Investment
- **3,000+** Partner Organizations
- **25,000+** Students Career-Ready
- **60+** University Partners
- **12,000+** Innovative Research Projects
- **37+** Research Organization Partners
- **2,200+** International Student Research Internships
- **1,100+** Professional Skills Workshops
All disciplines, all sectors, not-for-profit organizations.
Support flexibility
Attract funding
Quality research
International opportunities
Train graduates
Mitacs Program Goals
MITACS PROGRAMS
SMALL or LARGE SCALE PROJECTS
All disciplines

Graduate students
Postdoctoral fellows
International students

All disciplines
NON-COMPETITIVE QUICK
FUNDING CYCLE
FUNDING CYCLE
FUNDING CYCLE

- Project-related costs
- Stipend
- Funding cycle
- Industry
- University
- University
- Project-related costs
- Stipend

Mitacs
FUNDING CYCLE

- Project-related costs
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- Funding cycle

INDUSTRY

UNIVERSITY

Project-related costs

Stipend
ADVANCED COMPUTING PLATFORMS

IBM BLUE GENE/Q

Canada’s fastest supercomputer is suited for large-scale, distributed applications that require massively parallel processing power, such as molecular modelling, drug discovery, climate change forecasting, and computational fluid dynamics.

CLOUD ANALYTICS

Canada’s first research-dedicated cloud environment hosts a broad array of IBM software tools for application development and data analytics. The Cloud Analytics platform is ideal for complex data analysis, streaming and managing large data volumes, and data mining applications.

AGILE COMPUTING

Canada’s first multi-platform agile research environment uses Field-Programmable Gate Array (FPGA) technology to accelerate hardware performance. FPGA cards can accomplish numerically complex tasks more efficiently and at lower cost than a traditional CPU could do alone.

LARGE MEMORY SYSTEM

The LMS platform is a single 64-core virtual system with 4.5 TB of RAM. Outfitted with the latest IBM analytics software, the LMS is ideal for data-intensive projects with huge active memory requirements.
GLOBALINK PARTNERSHIP AWARD (GPA)
GLOBALINK PARTNERSHIP AWARD (GPA)

ALL COUNTRIES!
HOW Mitacs CAN HELP WITH YOUR RESEARCH GOALS
FUND MULTI-INSTITUTIONAL COLLABORATIVE RESEARCH PROJECTS
MULTI-DISCIPLINARY SMALL OR LARGE SCALE
SUPPORT YOUR GRAD STUDENTS
CONNECT YOU WITH INDUSTRY
STRENGTHEN INTERNATIONAL COLLABORATION
MITACS FUNDING PARTNERS
THANK YOU

QUESTIONS?

IF YOU CHOSE COMPUTER SCIENCE
BECAUSE YOU LIKE COMPUTER GAMES

YOU'RE GONNA HAVE A BAD TIME

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<tr>
<th>Ontology-based Middleware Services Facilitating Access to Data Sources</th>
<th>Social Privacy</th>
<th>Computer Algebra and High-Performance Computing Support for Model Predictive Control</th>
<th>Scalability of an autonomous trading platform</th>
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<td>Web tools for intelligent real-time data analysis</td>
<td>Development of ultrasonic based oil-water interface level monitoring device</td>
<td>Optimization of Long Term Quantitative Market Predictions</td>
<td>Development of an information theory-based mutation detector for a commercial bioinformatics genome server</td>
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<td>Development of an Agent-Based Market Simulator</td>
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**Testing the response of sand samples to cyclic loading under different boundary conditions**

**Thomas Hobbes et le scepticisme**

**Characterization of chemosensory proteins in exosomes**

**Brain Decoding Models for neurodegenerative disease aided diagnosis and classification**

**Comparative analysis of merger control mechanisms in Canadian and Mexican competition law**

**A Generalized Model Predictive Path Planning System for Autonomous Vehicles on Structured Roads**

**Chemical Analysis of Complex Samples with High Resolution Capillary Electrophoresis Mass Spectrometry**

**Robust statistical damage assessment of infrastructures**
Put your talent to work with an organization that needs it. Funding starts at $15,000.

**HOW IT WORKS**

1. **The match**
   A grad student, a supervising professor, and a partner organization develop a research project.

2. **The proposal**
   Applicants submit a proposal via a Mitacs representative.

3. **The project**
   Projects receive $15,000 in funding for each four-month internship.
Enhanced and Conformation Specific G protein-coupled receptors (GPCRs) Expression for Autoimmune Diagnostics - MB-001

Posted on: 09/01/2016
Preferred Disciplines: Biomedical sciences, Post-Doc
Project length: 2 years
Approx. start date: As soon as possible
Location: Winnipeg, Manitoba
No. of Positions: 1 intern
Preferences: Prior expertise in membrane protein and/or G protein-coupled receptor (GPCR) research is an asset
Company: N/A

Creation of a retail algorithm - QC-085

Posted on: 08/17/2016
Preferred Disciplines: PhD Computer Science
Company: N/A
Project Length: 4 months
Desired start date: ASAP
Location: Montreal, QC
No. of Positions: 1
Preferences: Bilingual candidate preferably from ETS, McGill or Polytechnique
THE STATS
46% of Accelerate interns currently working in the private sector were hired by their partner companies.

90% of organizations actually use the research.

80% of the research projects are published.

75% of research projects are used in student theses.
Mitacs Accelerate: Impact on Former Interns
Longitudinal study results, April 2014

1. Impact on academic experience and skill development

- 96% would recommend Mitacs Accelerate to fellow graduate students and postdocs.
- Most interns feel more employable and attribute a better starting position to the program through:
  - An expanded professional network
  - Acquisition of professional experience

2. Impact on employment

- 46% of Accelerate interns currently working in the private sector were hired by their partner companies.
- 19% of internships led to the creation of a new position at the company.
- Former interns:
  - 51% working in industry
  - 14% have started their own company
  - 67% working in an R&D environment
Impact on retention

- 91% currently live in Canada
- 87% believe their participation in Mitacs Accelerate has increased their satisfaction with their stay in Canada
- 93% would recommend to students from their home country that they participate in a Canadian industrial research internship program

Did you know?
Results suggest that Mitacs Accelerate is responsible for the creation of 200 new R&D jobs annually.

ABOUT THE SURVEY
The survey was available online from October 31st to November 29th, 2013. 686 former interns from 9 provinces and 44 Canadian universities responded to the survey, an overall response rate of 27%.

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