

**Canada**

Research Portal

Application - Discovery Grants Program

Identification (mandatory)

Applicant

Family Name: Mason

First Name: Dave

Middle Names: Victor

Current Position: Professor

Applicant Category

Suggested Applicant Category: Established Researcher (ER)

Administering Organization

Organization: Toronto Metropolitan University

Department/Division: Computer Science

Application

Application Title

Leveraging Dynamic Programming Languages for Developer Effectiveness and Runtime Performance

Language of the Application English French

Suggested Evaluation Group 1507 Computer Science

Hours per month to be devoted to the research/activity, or use of equipment or facility 60

Secondary Consent

I consent to the use of my self-identification information, found in the Person Profile section of the Research Portal, for the implementation of measures to improve equity and diversity in Discovery Grants funding outcomes. (required)

 Yes No

Indigenous Research

Does the proposed research fall under the NSERC definition of Indigenous Research?

 Yes No

Before answering this question, ensure that you have thoroughly reviewed the [NSERC definition of Indigenous Research](#)

Supplements/Joint Initiatives

To be considered for one or more Supplements or Joint Initiatives, select all that apply

- | | | |
|--------------------------------------|---------------------------|-------------------------------------|
| DND/NSERC Discovery Grant Supplement | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| Northern Research Supplement (NRS) | <input type="radio"/> Yes | <input checked="" type="radio"/> No |

Leaves of absence

I reported an eligible leave of absence or delay in my Canadian Common CV for this application (required)

 Yes No

Summary of Proposal

Summary

Second Official Language Translation**Proposed Expenditures**

	Year 1 Qty	Year 1 Amount	Year 2 Qty	Year 2 Amount	Year 3 Qty	Year 3 Amount	Year 4 Qty	Year 4 Amount	Year 5 Qty	Year 5 Amount
Salaries and benefits										
Doctoral	2	\$20,000	2	\$20,000	1	\$10,000	1	\$10,000	1	\$10,000
Master's	2	\$18,000	2	\$18,000	2	\$18,000	2	\$18,000	2	\$18,000
Undergraduate	2	\$10,000	2	\$10,000	2	\$10,000	2	\$10,000	2	\$10,000
Subtotal		\$48,000		\$48,000		\$38,000		\$38,000		\$38,000
	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Subtotal		\$0		\$0		\$0		\$0		\$0
Equipment or facility										
		\$0		\$0		\$0		\$0		\$0
Subtotal		\$0		\$0		\$0		\$0		\$0
Materials and supplies										
		\$0		\$0		\$0		\$0		\$0
Subtotal		\$0		\$0		\$0		\$0		\$0
Travel										
Conferences		\$8,000		\$8,000		\$8,000		\$8,000		\$8,000
Subtotal		\$8,000		\$8,000		\$8,000		\$8,000		\$8,000
Dissemination Costs										
Publication costs		\$500		\$500		\$500		\$500		\$500
Subtotal		\$500		\$500		\$500		\$500		\$500
Other (specify)										
		\$0		\$0		\$0		\$0		\$0
Subtotal		\$0		\$0		\$0		\$0		\$0
TOTAL PROPOSED EXPENDITURES		\$56,500		\$56,500		\$46,500		\$46,500		\$46,500

Year 1 Qty	Year 1 Amount	Year 2 Qty	Year 2 Amount	Year 3 Qty	Year 3 Amount	Year 4 Qty	Year 4 Amount	Year 5 Qty	Year 5 Amount
Total Cash Contribution from industry (if applicable)	\$10,000		\$0		\$0		\$0		\$0
Total Cash Contribution from university (if applicable)		\$0		\$0		\$0		\$0	\$0
Total Cash Contribution from other sources (if applicable)		\$0		\$0		\$0		\$0	\$0
Total amount requested from NSERC	\$46,500		\$56,500		\$46,500		\$46,500		\$46,500

Relationship to Other Research Support

**Do you hold or have
applied for CIHR and/
or SSHRC funding?**

HQP Training Plan

Past Contributions to HQP Training

Most Significant Contributions

Most Significant Contribution

Additional Information on Contributions

Activity details

Certification requirements (mandatory)

Yes No

Does the proposed research involve humans as research participants?

Yes No

Does the proposed research involve animals?

Yes No

Does the proposed research involve human pluripotent stem cells?

Yes No

Does the proposed research involve hazardous substances?

Yes No

Does the proposed research involve human totipotent stem cells?

Impact assessment (mandatory)

Yes No

Will any phase of the proposed research take place outdoors?

Sensitive Technology Research Areas

Yes No

Will the proposed research activities supported by this grant aim to advance any of the listed sensitive technology research areas? (required)

Note: If you answered 'Yes' to the above question, you must complete and attach attestation forms to your grant application — in the STRAC Attestation Attachment section — to comply with the policy.

Research Subject Codes

Please select at least one research subject code

1.
2.

Area of Application Codes

Please select at least one area of application codes

- 1.
- 2.

Keywords (mandatory)

Dynamic Languages, Run-Time Performance, Integrated Development Environments, Type Inference

Eligibility Profile

Academic Appointment

Yes No

I hold an academic appointment at an eligible Canadian postsecondary institution.

Yes No

I will hold an academic appointment at an eligible Canadian postsecondary institution.

Expected Start Date:

Academic Position

Official Title of Position Professor / Professeur

Postsecondary Institution Toronto Metropolitan University

Department/Division Computer Science

Yes No

The position I currently hold or will hold is a tenured, tenure-track or lifetime professor emeritus at an eligible Canadian university.

Yes No

The position I currently hold or will hold is an indeterminate (i.e. with no end date) academic position with an eligible Canadian university, other than tenured, tenure-track or lifetime professor emeritus.

The position I currently hold or will hold is a term or contract academic position at an eligible Canadian University, renewable during the grant term if the eligible appointment is not established for the full grant term.

Yes No

In addition to the academic position named above, I hold a remunerated position at an eligible Canadian institution.

Yes No

In addition to the academic position named above, I hold a position outside the university sector.

Yes No

I hold a position outside of Canada.

Yes No

I am enrolled in a graduate program in the natural sciences or engineering, or I hold a postdoctoral position.

Yes No

From:

To: