

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

☐ Yes

☒ No

Northern Research Supplement (NRS)

☐ Yes

☒ 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

**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.**

☐ Yes ☒ No

**Expected Start
Date:**

Academic Position

**Official Title of
Position**

Professor / Professeur

**Postsecondary
Institution**

Toronto Metropolitan University

Department/Division

Computer Science

**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.**

☐ Yes ☒ No

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

From:

To:

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