**Early Demonstration Seed Fund Program Application**

**Part A – Applicant Information**

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| Lead Applicant |  |
| *Faculty Supervisor, if lead applicant does not hold a three-year or longer postdoctoral academic appointment* | *Name:* *Title:*  *E-mail:*  *Institution:* *Dept:* |
| Applicant Address |  |
| Applicant E-mail |  |
| Applicant Home Institution |  |
| Home Faculty and Department |  |
| Current Research Role |  |
| Anticipated End Date of Current Role (“N/A” if permanently appointed) |  |

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| **Applicant Name:** | |  | | |
| **Email:** | |  | | |
| **Institution:** | |  | | |
| **Faculty and Dept:** | |  | | |
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**Part B – Early Demonstration Project Details (to be completed by lead applicant)**

1) Title of proposed technology demonstration project:

2) Describe the practical problem your technology demonstration addresses. The problem must be one that is not already addressed by the technology’s expected uses in astroparticle physics research (max. 100 words).

3) List the main underlying technology(ies) to be applied in this demonstration. One or more of these technologies must be either uniquely employed in astroparticle physics research, or have been specifically developed to facilitate astroparticle physics research (max. 50 words).

4) Explain how an earlier proof-of-concept demonstration provides assurance that your proposed demonstrator version of the technology is feasible (max. 150 words).   
 *The proof-of-concept demonstration does not need to have been demonstrated by the applicant, but it must meet both of the following criteria:*

1. *Employs at least one of the main underlying technology(ies) proposed in this application.*
2. *Does not, or would not reproducibly solve the targeted problem when operated by its intended end-user(s).*

5) Describe specific deficiencies in the scope or the performance of the proof-of-concept that prevent the technology(ies) in question from reproducibly solving the targeted problem when operated by the intended end-user(s) (max. 150 words).

6) Describe how you will resolve proof-of-concept scope or performance deficiencies, such that the intended end-user(s) could reliably solve the targeted problem with the underlying technogy(ies) (max. 300 words).

7) Describe the timeline and milestones for the proposed Proof of Concept. Include start date and end date for the project with maximum duration of 12 months (min. 6 milestones):

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| Date *(e.g., Month 1, Week 2)* | Milestone | Success Criterion  (where applicable) |
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8) Describe the role of the lead applicant in this project (max. 100 words):

9) Describe either an existing end-user who will have access to the demonstration, or the means through which you will consult with a potential end-user on the viability of the demonstration (max. 100 words).

10) Briefly outline the major expenses you expect to incur in the project and detail amounts from the McDonald Institute that will reimburse various expenses. Please refer to eligible expenses in the Terms of Reference attached to this application.

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| Item | Amount (CDN) | To be reimbursed by McDonald Institute | To be funded from other sources |
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**Part C – Social and Economic Benefit Analysis**

11) What is potential value of the demonstration, if it succeeds? Provide quantitative estimates of the value a successful demonstration could deliver (compared to existing alternatives) to an end-user in any combination of time, money, quality, risk, capacity or other value. (max. 100 words).

12) What steps will you take to promote Equity, Diversity, and Inclusion in your project in terms of the people who are engaged with it, including technologists, fabricators, engineers, designers, end-users or use-case analysts (max 1200 characters, approx. 200 words)?

13) What potential consequences could arise for the equitable, diverse and inclusive access, use and disposal of your demonstration technology if it were to become a widespread innovation? What steps could you take to mitigate any negative consequences (max. 200 words).?

**Part D– Conflict of Interest**

14) If you have a financial or potential financial conflict of interest, as defined in the attached Terms of Reference for this program, please disclose the nature of the conflict and how you propose to manage it to avoid the occurrence or appearance of improper use of funds from this program. Sources of conflict could include awarded funds, intellectual property rights or obligations, or financial interest between the applicant and end-users (max. 100 words).

**Part E – Confirmation**

Please confirm:

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| I have read and approve of the complete application |  |
| I understand that this competition may provide me with a maximum value of $20,000 CAD payable by invoice and the funds are only to be used for eligible expenses. These funds will only be released upon invoice once administrative documents are complete. I am responsible for any additional funding and will disclose any additional funding the student receives |  |
| You are eligible to have authority over an institutional account for grants or awards, or your supervisor (listed on this application) is eligible? |  |
| I have only submitted one application to this round of the Early Seed Fund Demonstration program. |  |
| I will follow institutional policies, including health and safety. |  |
| I either do not have a Conflict of Interest (defined in the attached Terms of Reference), or I have already disclosed any Conflict of Interest in Part D of this Application. |  |

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Signature of Applicant Supervising Faculty (only if required)

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Date Date

**Application Completeness Checklist:**

Parts A, B, C and D are fully completed

Confirmation section has been signed

The application has been combined into ONE PDF

Email the documents to: [admin@mcdonaldinstitute.ca](mailto:admin@mcdonaldinstitute.ca?subject=CDI%20Program%20–%20[Last%20Name]) with the subject line “Early Demonstration Seed Fund”