# Cancer Digital Intelligence (CDI) Grand Challenge: From AI Algorithm to Implementation

# Full Application

### Thank you for applying to the Cancer Digital Intelligence (CDI) Grand Challenge. Please adhere to the word limits and format outlined below. Any applications that do not follow the format and word limit will not be accepted.

## Applicant Information:

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| **Name:** |  |
| **E-mail:** |  |
| **Current Position:** |  |
| **Primary Institute:** |  |

**List of other applicants and/or Collaborators:**

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| **Name** | **Position** | **Organization/Institute** |
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## Challenge Proposal:

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| **Title:** |
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| **Keywords:**  List up to ten (10) key words that describe your proposed research. | | | | |
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**CDI Strategic Direction:**

Please indicate the primary CDI Category your project corresponds to (Select 1). For a description of the categories please go to [www.pmcdi.ca](http://www.pmcdi.ca)

Care Innovation (CI)  Discovery Integration (DI)

Business Intelligence (BI)  Data Science and Analytics

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| **Summary:**  Describe your project in a way that is understandable by a broader audience. Be sure to clearly indicate how your project will involve artificial intelligence. The summary may be used for communication purposes. (250 words maximum). |
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| **Background:**  Identify the problem that this project solves for clinical and/or research settings. Use metrics wherever possible. For example, how many people does this problem impact? (250 words maximum) |
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| Methodology  1. Describe the methodology for the project, including analytical approaches. Consider expressing the problem in terms of statistical and/or machine learning techniques so that we may identify the most suitable techniques for desired outcomes. (250 words maximum*)* |
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| 1. Identify the **source(s) of data** needed to support this project (i.e. list of all the systems). Has this data been curated and deidentified? Please provide a list of main/key data fields for each source. |
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| 1. Identify how your AI project will address the following (250 words maximum): 2. Compassionate Care 3. Inequity of care 4. Data or algorithmic biases |
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| 1. Describe the workflows and processes required for the implementation of your AI solution: |
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| 1. Has this project been granted Institutional/Research Ethics Board (REB) approval? If not, will it require application for such approval? |
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| **Milestones and Metrics:**   1. Define the expected outcome(s) of this project. How do you define success vs. failure? How will you quantify and evaluate the success of the project? (500 words maximum) |
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| 1. Identify how deliverables from this project can contribute to open science and be leveraged by the broader scientific community in the long-term? (500 words maximum) |
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## Deliverables and Project Schedule

Identify clear project deliverables and quantifiable milestones for this project.

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| **Project Deliverables** | **Start Date** | **Completion Date** | **Responsibility** |
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## Human Resources, Hardware and Software Requirements:

Identify all resources required for this project.

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| **Resource** | **Quantity(%FTE)** | **Type (In-Kind, CDI, Other – Specify) \*** | **Details** |
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*\*In-Kind* refers to a funded resource already on the project team. *CDI* refers to requested resource from the Cancer Digital Intelligence Program that would be covered by the Grand Challenge. Please specify additional resources that may require funding under *Other*.

## Risk and Mitigation Strategy:

Identify the risk, consequences, level of risk and a contingency/prevention plan for the project.

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| **Describe the Risk** | **Expected Consequence(s)** | **Risk Level**  **L / M / H \*** | **Prevention Plan & Contingency Plan** | **Risk Owner** |
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*\*L = Low, M = Medium, H = High*

Please submit one PDF document which contains this application and any supporting

documents (i.e. appendices). Application files should be named with the PI last Name

and the project title as specified.  PILastName\_ProjectTitle\_Application.pdf

All submissions must be sent to [pmcdi@uhn.ca](mailto:pmcdi@uhn.ca) with the PI Last name and project Title in

the subject as shown.  **Grand Challenge Application: PI Last Name - Project Name**

**All applications due Friday September 26th, 2025**