AI-RELATED PROGRAM SUBMISSION TO THE VECTOR INSTITUTE

Please complete all applicable sections of this template for each AI-related program seeking recognition from Vector as contributing to the 1000AIMs initiative. Refer to the *Guidance for AI-related Master's Programs* and to the *Process for Acquiring Vector's Recognition of Master's Programs in AI-Related Fields* documents prior to making a submission.

Please send completed templates to AImasters@vectorinstitute.ai

SECTION I – Program details			
University:		**Degree type (e.g. MSc, MASc):**	
Program name:		**Program duration (in months):**	
Program category: Core Technical AI-related ☐ Complementary AI-related ☐			
Program type	**Has OUCQA approval been obtained?**		
Track 1 ☐	Yes ☐ No ☐ N/A ☐	Is this a collaborative specialization?[1]	Yes ☐ No ☐
Track 2 ☐	Yes ☐ Expected program launch date:		
Track 3 ☐	Yes ☐ Expected program launch date:		
Program AI-related field(s), *check all that apply***:** ☐ Data science ☐ Machine and deep learning ☐ Computer vision ☐ Intelligent robotics ☐ Natural language understanding ☐ Knowledge representation and reasoning ☐ Intelligent agents ☐ Intelligent user interfaces ☐ Intelligent medicine ☐ Other (please specify):			
Program description *(briefly outline the objectives of the program, the program structure (e.g. coursework, technical training, internship, practical application, etc.) and describe the special features of the program that prepare graduates to contribute to meeting the capacity needs in the program's specific AI-related area, and anticipated employment outcomes). For Track 1 programs, highlight the enhancements made.* Maximum 1 page.			

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[1] Collaborative specializations are intra-university fields of study that bring together the expertise from two or more existing master's programs (parent programs) to provide required (core) curricular components in the area of specialization.

SECTION II (to be completed for Track 1 <u>collaborative specializations</u> only)

List all departments/programs involved in the specialization and <u>for each parent program</u>: a) specify the AI-related field(s) associated with the program; and b) attach the program description, degree requirements, calendar description of all courses and/or other curricular components denoting those which are required or elective. *(Please add rows as required.)*

Department *e.g., Computer Science*	Parent program related AI-field(s) *e.g., computer vision and natural language processing*
1.	
2.	
3.	
4.	

SECTION III – Essential Requirements (to be completed for all programs).

For collaborative specializations the components reflect the common requirements that all students in the specialization must complete.

1. Describe the curriculum components and associated learning outcomes related to communication, teamwork and interdisciplinary practice related to AI.

2. Describe the curriculum components and associated learning outcomes related to the ethics and societal implications of AI.

3a. To be completed by core technical AI-related programs in STEM only.
Describe the curriculum components and associated learning outcomes focused on AI-related methodologies and applications. Learning outcomes should focus on a) the application of AI-related methodologies to ensure that graduates have knowledge and skills related to algorithms and representations regardless of their application area *(it is strongly recommended that a machine learning curriculum component be offered);* and b) studying an AI-related application area in depth so students can apply AI-related methodologies and have knowledge of their limits in solving problems.

3b. To be completed by complementary AI-related programs only
Describe the curriculum components and associated learning outcomes focused on AI-related applications and/or methodologies related to the primary field of study. Learning outcomes should ensure that graduates have sufficient knowledge of the relevant AI-related applications and methodologies to be able to contribute to AI-related work, providing essential input to the development, refinement, evaluation and implementation of AI-related methods, tools, products and services in real world settings.

SECTION IV – Enrolment and curriculum delivery

Indicate the current or projected program (or collaborative specialization) intake and specify expected enrolment growth. Describe the scalability of the program including additional resources that would be required to support increased enrolment.

List all <u>AI-related</u> curriculum components (e.g. course title and number, capstone project, etc) associated with the AI-related program (or collaborative specialization) and the faculty members with primary responsibility for delivering each component. *(add rows as required)*

Curriculum component	Specify if required (R) or elective (E)	Faculty instructor(s)	Rank	Home Department

SECTION V – University Signatures

Position Title	Name & email address	Signature & Date
Program Director		
Department Head		
Faculty Dean		
Dean, Graduate Studies (or delegate)		
Provost or delegate		

Supporting documents to include as part of the submission:

- AI-related course outlines or detailed course descriptions (including descriptions of capstone projects, internships, summer school, and/or other curricular components).
- CVs of all core faculty, i.e. all those with responsibility for course instruction or delivery of other curricular components (common CV, NSERC form 100, or other format)
- For each 'parent' program contributing to a collaborative specialization, provide program descriptions, calendar description of all courses and/or other curricular components denoting those which are required or elective (as per instructions, template Section II).
- Additional information as may be requested by the 1000AIMs panel

NOTE: To monitor progress toward achieving the goals of the AI-master's initiative, programs recognized by Vector will be asked on an annual basis to provide information on the number of complete applications received from prospective students (domestic / international), enrolments (intake and total), degree completions and employment outcomes of program graduates.

Section VI - For Vector's internal use only		
Submitting University:		Date received:
University reviewers contacted		
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
Industry/employer reviewers contacted		
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
	Agreed: Yes ☐ No ☐	Conflict of interest: Yes ☐ No ☐
Panel recommendation:		
Feedback for submitting institution:		