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Application Form for the CMS 2023 Endowment Grants Competition

Deadline September 30

Title of Proposal

Fields Academy: Elementary Educators Program

Contact information

The one person and place to communicate with the applicant(s).

Name Pamela Brittain

E-mail pbrittai@fields.utoronto.ca

Telephone 6472440747

Fax

Institution or department to administer grant funds

Name The Fields Institute for Research in Ma

Address 222 College St

Toronto

ON

M5T 3J1

Contact Pamela Brittain

E-mail pbrittai@fields.utoronto.ca

Telephone 6472440747

Fax

Summary

Less than 100 words

Total amount requested in this competition \$

2500

The Fields Academy: Elementary Educators Program aims to fill a gap in mathematical content knowledge of pre- and in-service elementary teachers. Research has shown that teachers with strong math skills can provide more engaging and dynamic math content to their students, and activate a curiosity and engagement with the subject. However, an elementary

Applicants

Put any specific information on the relevant experience or expertise of an applicant in "Other".

Name(s) Pamela Brittain

E-mail pbrittai@fields.utoronto.ca

Position K - 12 Academic Coordinator

Employer Fields Institute

Address 222 College St

Toronto

ON

	M5T 3J1		
CMS Member #	62087		
Current grants			

What you propose to do

at most 40 lines

Over the past two years, with the support of organizations like the CMS, we have been able to build and expand the Fields Academy: Elementary Educators Program, bringing them from a pilot/beta stage to being fully accessible to the public. We now have three courses available for pre- and in-service teachers on a range of topics: Operations (Part 1 - which focuses on building arithmetic and numeracy skills - Financial Literacy, and Mathematical Modelling. We also have a Logic and Coding course that will be released later this Fall. We are seeking additional CMS funding for two purposes. Currently we are charging a small fee (\$25) per course and we would like to use the CMS funds as a bursary to offset the cost of making the courses and keep the price affordable for teachers. We would also like to create a series of offline materials and resources that the teachers can use in their own classrooms, and CMS funds would go to support a graduate student in mathematics to help us develop those resources. We have been working on advertising these programs to a wide and diverse audience, including directly to teachers, but also to Faculties of Education and those who teach teachers. So far we have had nearly 40 registrants (in addition to the pilot / focus groups) and we are hoping to expand this to 100 participants by early 2024. Fields believes these programs serve an important purpose and fill a significant gap in mathematics education. We hope that the CMS will help us to continue to build and grow these courses, while keeping them affordable and accessible to teachers from across the province.

Budget

Use Tab key to navigate

Description

Revenue

Fields Institute (direct financial support)	50000		
Fields Institute (in-kind admin support)	7500		
CMS Grant Requested			
CMS Endowment Grant requested	2500		
Total Revenue \$	60000		

Expenses			
Program Coordinator	20000		
Graduate Student Content Developer	10000		
Curriculum / Content Development	20000		
IT Requirements (hosting, content platform, software, €	10000		
Total Expenses \$	60000		

Other *Funding, partners, revenue potential, information on applicants such as publications or awards, at most 20 lines.*

The Fields Institute for Research in the Mathematical Sciences was created in 1992 to promote mathematical activity in Canada and expand the application of mathematics in modern society. It is a registered charity and receives its operational funding from the Province of Ontario, NSERC, nine Principal Sponsoring Universities and many other affiliate universities and corporate entities. The Institute is situated at the University of Toronto, but operates independently from the University. Annual programming includes a full slate of long- and short-term events, such as specialized, six-month-long thematic programs, multi-day workshops and conferences, public lectures, recurring seminars, outreach activities, and start-up incubation. In 2016, the Centre for Mathematics Education was created. This group of international faculty and researchers (including those from the Institute's Principal Sponsoring Universities), teachers and school board members, representatives from the Ontario Ministry of Education, industry, media and the general public is devoted to transformative research in mathematics education and, by extension, STEM education. The applicant for this grant, and the person developing and overseeing these educational programs, holds a PhD in Education with a focus on elementary teacher math content knowledge and over nearly 20 years of industry experience in STEM education.

Project start date January 1, 2024

Finish date on-going