



EdGEO Grant Application Form (sample application)

Instructions:

Complete all sections of this form, sign, scan and send to edgeo1970@gmail.com for review by the EdGEO National Committee. It is important to provide the Committee with as much detail about the proposed workshop as possible to aid in their deliberations and demonstrate the need for this grant.

Important considerations:

EdGEO grants are meant to fund expenses directly related to engagement and support of Earth Science teachers and their teaching. They may be used for materials used in teaching components of the workshop such as materials to demonstrate or conduct activities, for field trip expenses such as transportation costs and museum admission fees, and for Teaching Resource Kit materials that participants take away with them to use in their own classrooms. Requests for funding to cover venue rental or participant meals, facilitator travel, accommodation, salaries or honoraria will not be approved.

EdGEO grant funding maximum is \$3000 per workshop. As EdGEO grants are intended to provide funds ahead of your workshop to purchase needed materials, your application may list estimates and anticipated expenses. We require that receipts for your actual expenditures be kept to establish the amount of approved funding that was actually used. Any surplus unused grant must be returned to EdGEO.

Please contact us at the email above if you have any questions.

Applicant Information

Name and Address:

Beth McLarty Halfkenny
Carleton University, Earth Sciences
2115 Herzberg
1125 Colonel By Drive
Ottawa, ON K1S 5B6

Primary Email: beth.mclartyhalfkenny@carleton.ca

Alternate Email: xxxxxxxx

Daytime Phone number: xxxxxxxx

Grant recipient (*Use the legal name of the organization to which the grant should be paid*):

Workshop Details

Workshop name: Paleontology Professional Development at Canadian Museum of Nature

Venue: Canadian Museum of Nature, Ottawa,

Target grade level/audience (*for example, K-12, grades 6 and 7, High School etc.*): Grade 4

Duration of the workshop (*note if this is a half-day, one-day, multi-day workshop*): one day workshop

Proposed format (in-class, outdoor experience, field trip): in-class at the Canadian Museum of Nature, in classrooms and museum galleries

Expected enrolment (number of participants): 21–50

Start date: 2019–11–23 **End date:** same 2019–11–23

Focus (*purpose and scope of the workshop*; describe the workshop's major topics, how they are to be covered, the depth of material and what knowledge you hope attendees will acquire):

The Earth Sciences Department at Carleton University will partner with the Canadian Museum of Nature to present a half-day Paleontology Professional Development workshop. This workshop will allow elementary teachers to tap into their students' passion for dinosaurs and other fossils. We'll provide ideas, resources and confidence to bring paleontology into the classroom.

Overarching goal: Train educators to be comfortable using palaeontology in their classrooms on its own and integrated into other lesson plans (e.g. math, biology) to harness students' love of fossils

The workshop has three main components:

1. A guided exploration of the Fossil Gallery to learn about fossils through time, and a tour of the Earth Gallery to investigate sedimentary processes and the KT boundary wall. Participants will learn how they can utilize these galleries with students to teach paleontology and geology concepts.
2. Discover how paleontologists use fossil trackways to calculate the mass, stride length, and speed of the animal that made them, by exploring an imaginary dinosaur trackway. Participants will have an opportunity to use scaled-down footprint stamps designed from real fossils to determine possible track-makers, explore how paleontologists investigate what the animals might have been doing in life, how paleontologists use fossil trackways to determine the size of the animal that made the tracks, and learn to imagine and create stories such as predator-prey encounters that can be told by making and interpreting trackways. Participants will receive an activity guide and 3D-printed footprint stamps.
3. Learn about the Ordovician environment and the fossils common to this period and found in the National Capital Region. Analyze and attempt identification of fossils, learn to think critically about the environment they might have lived in, and take fossils and an identification chart back to the classroom.

Workshop Schedule (*provide detailed schedule of planned activities*):

9–9:30 – Welcome, introduction to facilitators and participants, discussion of workshop goals and a brief talk about palaeontology research happening in the National Capital Region (NCR) from Canadian Museum of Nature palaeontologist Dr. Danielle Fraser

9:30–10:30 – Guided tour of fossil and earth galleries. This guided tour will help the educators become comfortable using the museum space to teach their students about palaeontology and geology. We will highlight KT boundary wall, interactive areas, and Canadian fossils

10:30 – 10:45 – Break

10:45 –11:30 – Fossil trackways activity: Using 2D trackways and 3D printed fossil footprint stamps to make observations, take measurements, collect data and investigate the following: body mass and size, stride length, speed of movement, behaviour; dinosaur identification from foot prints; predator–prey relationships; life history interpretations

11:30–12:00 – Ordovician/local fossils activity; learn about Ottawa’s geological history as told by the rocks; identify Ordovician fossils common to the NCR region; learn about how we use fossils and rock types to reconstruct past environments

12:00–12:20 – Feedback; participants will be asked to fill out a feedback form; what aspects worked well, what could be modified for future events, suggestions; we will also ask educators to share with each other how they see themselves using the activities in their classrooms

12:20 – 12:30 – Hand out take-home teaching resources and farewell

Instructors *(list facilitators and their affiliations):*

From the Department of Earth Sciences, Carleton University:

Beth McLarty Halfkenny, Curator

Jade Atkins, MSc. Vertebrate Paleontology Graduate Student

Additional Carleton Earth Sciences student volunteers to be confirmed

From the Canadian Museum of Nature:

Marcus Winchester, Education Programs Leader

Tara Conroy, Senior Science Interpreter

Dr. Danielle Fraser, Research Scientist, Paleobiology

Additional CMN staff and researchers to be confirmed

Additional information *(in-kind support, donors of materials or other details that will help the committee review your application):*

This workshop will be held at CMN in their educational classroom spaces where we can take advantage of the museum staff, researchers and collections.

Workshop fees will go toward offsetting CMN expenses including lost room booking revenue, museum admission, and other admin items as required.

CU ES will provide much of the non-consumable activity materials and some of the teaching resources.

CUES will provide USB's for digital resources

CMN will provide lanyards and resource kit bags

Workshop Budget

Use this space to specify details about anticipated revenue sources and expenses. You are encouraged to include all potential sources of funding, as well as to list each expense item in as much detail as possible. This will provide the EdGEO National Committee with the information they need to deliberate on your application.

Projected Revenues (include workshop fees and all anticipated funding from other sources and amounts)

Revenue Description	Amount
Carleton University Earth Sciences	\$150
Workshop participant fees (\$30 x 25 teachers)	\$750
EdGEO Grant	\$2275
Total Revenue	\$3175

Projected Expenses (list specific expense items below with estimated or known costs

including specific teaching resources provided to teachers; see Sample EdGEO Grant Application form for examples)

Expense Description	Cost
3D Printed footprint stamps (\$26 x 25 teachers)	\$650.00
3d printed ordovician fossil community slab (\$20x 25 teachers)	\$500.00
Ordovician fossil specimens (1 each brachiopod, rugose coral, gastropod, crinoid stem piece, orthocone)	\$250.00
printing, workshop activity handouts as required	\$25.00
CMN expenses; museum admission, room rental, etc	\$750.00
5 copies of 4BYC book for raffle (assuming discount price of \$25)	\$125.00
ruler and grain size chart (\$7 x 25)	\$175.00
hand lenses	\$250.00
Editing of French translations of digital resources related to activity pages	\$300.00
USB's for digital resources	\$150.00
Total	\$3175.00

Projected Totals

	Amount
EdGEO Grant Request	\$2275.00
Other Revenues combined	\$900.00
Revenue total	\$3175.00
-Expense total	\$3175.00
Grant + other revenue -expenses =	\$0

Grant application submitting instructions:

Sign, scan and forward your completed application to the EdGEO Chair at edgeo1970@gmail.com

I the undersigned have reviewed this application and certify that its contents are true.

Name:

Signature:

Date:
