
CALL FOR EXPRESSIONS OF INTEREST

Case studies and prototypes for Gendered Design in STEAM in Low and Middle-Income Countries

July 2019

Carleton University in Canada is launching a call for expressions of interest on Gendered Design in STEAM (Science, Technology, Engineering, Art and Mathematics) in Low and Middle-Income Countries (LMICs). This call is part of an explorative research program and is funded by the International Development Research Centre (IDRC, Canada).

OBJECTIVE OF THE CALL

Identify, support and promote a community of experts in LMICs engaged, or interested in engaging with Gendered Design as a potential field of practice and research. This call will do so by fostering and disseminating knowledge on how and by whom Gendered Design is practiced and could be practiced in LMICs, and by further supporting capacity building in this field. Specifically, successful applicants will be supported in their effort to include gender reflection and analysis into their case study research and design approach through the stages of the project; they will be expected to participate in webinars and workshops, and will receive resources, tools and access to experts. Applicants will be strongly encouraged to engage with each other, virtually and face-to-face, forming a “cohort” and nascent network. All projects will be featured on an Open Science Portal, as well as displayed during a Galleria, to disseminate findings and amplify the contribution of the researchers to the Program and Gendered Design more broadly.

DEFINITION

The definition of Gendered Design used by this call is the practice of reflecting upon and incorporating gendered considerations when designing technology-based solutions, applications, methods or processes. Gendered considerations especially pertain to women, who are too often underrepresented and/or overlooked in technical and design fields. It is intended that such an approach will lead to and promote new or improved services, products, processes and systems designed using gender analysis, generating substantial benefits for society and advancing gender equality.

CALL FOCUS

The call will give priority to proposals that:

- are led by women and/or that benefit women directly or indirectly in light of their lived experiences, perspectives and histories;
- articulate with care and imagination how they fall within the category of ‘Gendered Design’ in their respective context in order to account for what gender and design can mean within different LMIC geographical and national contexts; and
- concentrate on the following STEAM sectors: transport/mobility; renewable energy; manufacturing; housing/built environment/ public space; infrastructure; and accessibility (which can be cross-cutting).

Website: <http://scalar.usc.edu/works/gendered-design-in-steam/index>

Duration: April 2019 – March 2022 (36 months)

Lead Institution: Carleton University, Ottawa, Canada

Coordinators: Bjarki Hallgrímsson, Director, School of Industrial Design, Co-Principal Investigator; Dominique Marshall, Professor, Department of History, Co-Principal Investigator; Chiara Del Gaudio, Assistant Professor, School of Industrial Design, Co-Investigator; Beth A. Robertson, Postdoctoral Fellow, Department of History and School of Industrial Design, Program Director; Heloise Emdon, Carleton International, Program Facilitator; Amina Mire, Assistant Professor, Department of Sociology and Anthropology, Carleton University, Gender Advisor; Yoko Akama, Associate Professor, Communication Design, School of Design, RMIT University, Melbourne, Australia, Regional Advisor; Emmanuel Mutungi, Lecturer and Department Head, Art and Industrial Design Faculty of Vocational Studies, Kyambogo University, Regional Advisor; Raquel Noronha, Adjunct Professor, Head of Design and Technology Department, Federal University of Maranhão, Regional Advisor.

Overview

We invite individuals and institutions to submit expressions of interest in one of the two following streams:

- Stream 1: “Case Studies” - 15 to 20 grants between \$10,000 and \$15,000 CAD each;
- Stream 2: “Case Study + Prototype” - 10 grants of a maximum of \$35,000 CAD each.

APPLICATION PROCESS

Submission of applications will take place in two stages:

- Stage 1: applicants will submit an expression of interest;
- Stage 2: if invited to do so by Carleton University, applicants will submit a full proposal.

Applicants with a promising expression of interest will be invited to submit a full project proposal. If the full proposal is accepted, applicants will receive a grant, which will be active from 27th January 2020 to 17th December 2021. The amount of the grant will vary, depending on the stream and the complexity of the project.

The main activities and dates of this call are the following:

PHASE	DATE
Launch of the call	26 July 2019
Deadline for the submission of expressions of interest	27 September 2019
Notification to selected expressions of interest	28 October 2019
Deadline for the submission of full project proposals	6 December 2019
Notification to selected project proposals	27 January 2020
Implementation of contract	27 January 2020
Grantees obtain necessary ethics applications, country clearances, etc.	27 January - April 2020
Webinars and virtual teleconferences for training and sharing	April - May 2020
Deadline for first stage of projects	27 November 2020
Training and support through regional workshops	December 2020
Deadline for the finalization of case studies and prototypes	2 April 2021
Projects exhibition Galleria in Ottawa	7 May 2021
Writing training and collaboration on Open Science Portal to disseminate findings and results	10 May - 17 December 2021
Submission of technical and synthesis reports to IDRC	January-March 2022

FORMAT OF THE EXPRESSION OF INTEREST

Applicants must first respond to this call by submitting an expression of interest by

EXTENDED DEADLINE: October 7, 2019 11:59 PM
(UTC/GMT -4 hours, time zone)

This expression of interest must include the following by completing the template in English provided at <http://bit.ly/EOIApplication>:

- clearly explain the proposed project, including how it may contribute to a more inclusive, gender-conscious design approach within the particular national/geographical context of the applicant;
- complete a budget, provided in the template;
- provide biographical and professional details of all the applicant(s) involved;

- explain how the proposed project relates to one or more of the following STEAM sectors: transport/mobility; renewable energy; manufacturing; housing/built environment/public space; infrastructure; accessibility, particularly as it relates to people with disabilities (cross-cutting);
- clearly specify to which stream(s) you are applying. In both streams, we encourage knowledge production that is both multidisciplinary in approach and actionable, through the use of collaborative design processes.

Note 1: As this program is exploratory, we encourage applicants to be thoughtful and creative in further defining these sectors as they relate to their particular LMIC context.

Note 2: As these sectors are interrelated, applicants are welcome to include more than one sector if and when appropriate.

Note 3: Artificial intelligence case studies or designs applicable to one or more of the sectors above will be considered eligible.

Supplementary materials in alternative formats (i.e. video, poster, etc.), that present a brief pitch of the project in either English, French or Spanish to complement the written materials, are also welcome, but must be no larger than 10 MB per file.

STREAMS OF APPLICATION

Stream 1: Case Studies

Applicants who apply to Stream 1 are required to propose case studies and/or narratives (only) of past and/or ongoing experiences that can help deepen our understanding of past successes and failures in regard to gendered design, in order to meaningfully guide contemporary designers and stimulate engagement in gendered design more broadly.

Stream 2: Case Study + Prototypes

Applicants submitting to Stream 2 will propose a combined case study and prototype design project (i.e. material object, model, process, application, method, visualization, etc.). In this situation, the case study will take account of past and/or ongoing practices to help inform the design process for new prototypes or prototyping design processes as the project proceeds. This design should help address a specific challenge, issue, technical or knowledge gap for a given community in LMICs. During and after the design process, applicants will document and reflect on their experiences and the results obtained. Such theoretical reflection on implemented design processes should contribute to identifying, analyzing and speculating on a variety of practices and processes able (or not) to promote gendered design, while contributing to addressing local gender challenges.

WHO CAN APPLY?

Applicants and applications must fulfil the following criteria to be eligible for funding under the program. Eligibility checks will be applied to all proposals on receipt.

Principal Applicant and Team

- Applications from both individuals (especially for Stream 1) and teams of individuals (especially for Stream 2) will be considered;
- Applications should be submitted by a Principal Applicant;
- The Principal Applicant or Co-Principal Applicant should ideally be a woman or of another disadvantaged group*;
- Each proposal must have a Principal Applicant affiliated with a Higher Education Institution in an eligible LMIC, to guarantee that he/she/they have the expertise, skills, knowledge and experience, or conditions necessary to complete the project proposed. Emerging scholars are especially welcomed;
- Specifically, the Principal Applicant should hold a Master or PhD degree and be an employee of an accredited Higher Education Institution in an eligible LMIC with the capacity to undertake high-quality-research;
- Team projects should support at least 2 Master Students or 1 PhD Students as Co-Applicants;
- In case of team projects at least 50% of Co-Applicants should be women and/or of another disadvantaged group;
- Principal Applicants may only submit one application;
- In cases when an institution will be the grant recipient, Principal Applicants' institutions must have the capacity to administer the grant; if a full proposal is requested following this EOI, a letter will be required from the institution demonstrating its willingness to support and/or administer the grant;
- Individual departments within a single institution can make up to five applications provided that the proposed activities are clearly different, however note that no more than two grants will be awarded to any one institution;

- Funding must be used for research projects conducted within LMICs and by scholars and innovators located within those countries. Foreign students and foreign permanent employees of local institutions will also be considered;
- Principal Applicants and, if the case, their team can partner with individual scholars and innovators outside their respective country, if this is justified and if funding is administered by LMIC applicants only. Any funds to be used for the expenses of these partners can only go to LMICs and must be clearly justified and limited in amount;
- Principal Applicants may source parallel support (in-kind or cash) for any activity as long as the creative and administrative control remains with them.

**Note: A disadvantaged group may include those who are Indigenous, a member of an ethnic or racial minority, persons with a disability, and/or identify as Women, Men, Gender fluid and non-binary individuals; however, we understand that this is a sensitive and private issue for many, and no one will be penalized for not identifying in this way when applying. Team leaders should only identify team members in this way if they have the express permission of the person to do so.*

COUNTRY ELIGIBILITY

Eligible countries include those on the OECD Development Assistance Committee (DAC) list of Official Development Assistance (ODA) Countries:

<http://www.oecd.org/dac/financing-sustainable-development/development-finance-standards/daclist.htm>

However due to the specific scope and time-frame required of this program to produce a joint cohort of applicants, as well as other restraints, including security, operational constraints, etc., the following countries and regions will be considered **ineligible** at this time.

Afghanistan	Iran	South Sudan
Burundi	Iraq	Suriname
Central African Republic	Libya	Syria
Chad	Maldives	Timor-Leste
China	Mali	Venezuela
Comoros	Micronesia	Yemen
Congo (Democratic Republic of)	Monserrat	West Bank
Equatorial Guinea	Myanmar	Zimbabwe
Eritrea	North Korea (Democratic People's Republic of)	Southern and Eastern Europe
Gabon	São Tomé and Príncipe	Central Asia
Gaza	Saint Helena	South Caucasus
Guinea-Bissau	Somalia	
India	Sudan	

Also ineligible at this time are the Pacific Islands (Cook Islands, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Palau, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, Wallis & Futuna).

Note: All prospective grantees must secure official country clearance for their research projects before they are able to receive funding. Such clearance must be secured within a maximum of 90 days following the funding offer, beyond which Carleton University reserves the right to cancel its offer.

EXPENSES

Funds will be disbursed directly to the Principal Applicant or their institution according to the approved final budget. Applicants may be asked to adjust their budget if their request does not fit within funding guidelines.

Funding from this call should be used for the following type of research related expenses:

CATEGORY OF COSTS	TYPE	PERCENTAGE LIMITS	NOTES
HUMAN RESOURCES	<u>Stream 1 and 2:</u> Research grants in case of Master and PhD students. Research time cost for junior researchers. Staff costs for personnel working directly on the grant funded project (i.e. research assistant personnel, interview transcription services...).	<u>Stream 1:</u> Costs for graduate or postgraduate research assistant scholarship should be less than \$2000. <u>Stream 2:</u> Costs for research assistant scholarship should be less than \$5000.	
OPERATIONAL	<u>Stream 1:</u> Travel (economy class) and subsistence costs to undertake research activities. Costs to attend meetings, training events and seminars integral to the program (i.e. to attend the optional regional workshop). <u>Stream 2:</u> Travel (economy class) and subsistence costs to undertake research activities. Cost for interacting and involving local community (i.e. transportation, lunch, working time, etc.). Travel to attend local organized workshops as part of the research project and the Program's regional workshop for additional team members.	<u>Stream 1 and 2:</u> If operational costs are above 30% of the total funds requested they must be justified.	<u>Stream 2:</u> Workshop travel costs for only one Stream 2 team member have been budgeted for in the project budget.
EQUIPMENT AND MATERIALS	<u>Stream 2 (only):</u> Lab equipment and services, such as 3D printing.	<u>Stream 2:</u> If equipment and materials costs are above 30% of the total funds requested they must be justified.	
OTHER RESEARCH RELATED	<u>Stream 1 and 2:</u> Consumables (supplies). Access fees to facilities or library services (to collect materials, access archives, oral histories).	<u>Stream 1 and 2:</u> If other research related costs are above 15% of the total funds requested, they must be justified.	
COMMUNICATIONS	<u>Stream 1 and 2:</u> Publication costs directly related to the project and program. Research licenses and ethics if necessary. Use of telecommunications such as video/audio/web conferencing.	<u>Stream 1 and 2:</u> If communication costs are above 30% of the total funds requested they must be justified.	<u>Stream 1 and 2:</u> Article Processing Costs for LMIC countries in open access scholarly journals.
ADMINISTRATION AND INDIRECT COSTS	<u>Stream 1 and 2:</u> Costs with obtaining country clearance Administration fees from institutions of higher education.		<u>Stream 1:</u> Wherever necessary, fees from higher education institutions (up to \$1000.00) are also potentially eligible. <u>Stream 2:</u> Wherever necessary, fees from higher education institutions (up to \$3000.00) are also potentially eligible. In each case, institutions are strongly encouraged to provide an equivalent in-kind contribution to the awardees to offset the cost of any such fees required.

EVALUATION AND CRITERIA

The project's program committee, in consultation with sector experts, gender and regional advisors, will review the expressions of interest submitted and will select by late October 2019 those applicants who will be asked to continue and to submit a full proposal. Full proposals must be submitted by December 6, 2019. Applicants who are chosen to proceed with the project and receive funding will be notified in late January/early February 2020.

How will the expressions of interest be assessed?

The evaluation criteria of assessment will be the following:

- 1 - Relevance to the topic;
- 2 - Local relevance (for Stream 2);
- 3 - Consistency of the proposed project;
- 4 - Multidisciplinary nature of project activities;
- 5 - Creative/ innovative approach;
- 6 - Gender inclusive/aware team composition;
- 7 - Team specific expertise;
- 8 - Overall team skills and training, including in gender analysis and/or the potential and keenness to learn;
- 9 - Collective knowledge-building potential;
- 10 - Human resources capacity building ability;
- 11 - Manageable and practical outline of the proposed project activities;
- 12 - Communication and sustainability;
- 13 - Adequacy of the budget;
- 14 - Ethical considerations

Country specific priorities and challenges related to each area will be considered in the final decision, in addition to the general assessment criteria groupings, which will be weighted out of 100, i.e. relevance (maximum of 20 points), methodology (maximum of 20 points), team composition (maximum of 20 points), capacity building (maximum of 20 points), practicability (maximum of 10 points), ethical considerations (maximum of 10 points).

ANY QUESTION?

Please contact GenDesignSTEAM@cunet.carleton.com
or visit our Frequently Asked Question Page on our website:
<http://scalar.usc.edu/works/gendered-design-in-steam/faqs>

APPLY at:

<http://bit.ly/EOIApplication>
