

REQUEST FOR PROPOSALS

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Grand Challenges Canada™
Grands Défis Canada^{MC}

BOLD IDEAS FOR HUMANITY.™

Stars in Global Health
Round 7, Proof of Concept (Phase I)

December 2013

Executive Summary

Historically, some of the greatest impacts in global health were from innovators who tried out **bold ideas**. The discovery of vaccines over 200 years ago and of antibiotics in the last century are classic examples of unorthodox thinking that resulted from **bold ideas** that have had **big impact** and saved millions of lives.

Grand Challenges Canada, which is funded by the Government of Canada, has developed the Stars in Global Health program to support **bold ideas with big impact™** from the best and brightest talent, both in low- and middle-income countries and in Canada, to use scientific/technical, social and business innovation to address some of the most pressing global health challenges.

Since October 2011, Grand Challenges Canada has awarded approximately 300 Proof of Concept (Phase I) grants, each at \$100,000 CAD. Innovators are given 12–18 months to demonstrate proof of concept.

In this Round 7 Request for Proposals, Grand Challenges Canada seeks bold ideas aligned with innovative social entrepreneurial approaches that could be easily implemented in developing countries to save and improve lives. These bold ideas could come from non-profit organizations and for-profit organizations, as well as other recognized institutions. The ideas may encompass development/deployment of products and/or services in any spectrum of global health, including drug discovery, vaccine development, diagnostics, health and medical education, maternal and child health, non-communicable diseases (including cancer and mental health), health-related water and sanitation, and health-related agriculture and nutrition.

The focus of this call is not on the organization itself, but on the concept of social entrepreneurship in the proposal. The concept must be **novel, bold, innovative, transformational and 'outside-the-box'**. Existing social entrepreneurial ideas are welcomed so long as there is a clear innovative (novel) component being introduced.

For examples of the type of projects we have funded, please see www.grandchallenges.ca/our-grantees/ and a recent blog post by Andrew Taylor and Ken Simiyu, www.grandchallenges.ca/2013/stars-in-global-health-portfolio-review/.

We put a **strong emphasis on supporting social enterprises**, as we feel they are best positioned to transition proven innovations to scale. Phase I grantees who complete a minimum of nine months of their Grand Challenges Canada grant, complete their proof-of-concept projects and have solutions that are ready to transition to scale will be invited to submit **Transition to Scale (Phase II)** proposals. The **Transition to Scale (Phase II)** program will require the engagement with 'smart partners' that will enable the scaling of the innovation. To ensure commitment of these smart partners, 50% matching of funds at the Transition to Scale (Phase II) stage is required to be eligible for Grand Challenges Canada Phase II funding.

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1. Introduction

1.1 GRAND CHALLENGES CANADA

Grand Challenges Canada is dedicated to supporting **bold ideas with big impact**™ in global health. We are funded by the Government of Canada; we fund innovators in low- and middle-income countries and in Canada. The bold ideas integrate science and technology, social and business innovation (we call this Integrated Innovation®). We work to catalyze scaling, sustainability and impact. We have a determined focus on results, and on saving and improving lives.

“Canada has supported development innovation, pioneering new approaches to maximize impact and leverage private sector capital to address global development challenges. Canada’s strategic investments over the past several years are showing promising results... progress by Grand Challenges Canada in tackling critical barriers to solving some of the most pressing global health challenges”

Budget 2012, Fostering Sustainable Global Growth

Through the 2008 **Development Innovation Fund**, Canada was the first country to adopt a Grand Challenges approach to solving global health challenges through its official development assistance envelope. Grand Challenges Canada is the primary delivery vehicle for this fund, working alongside its consortium partners, the Canadian Institutes of Health Research and the International Development Research Centre.

Grand Challenges Canada is a significant new undertaking in Canadian foreign aid. Our vision is: **Bold Ideas. Big Impact. A Better World.** Our mission is: **Saving and improving lives in low- and lower-middle-income countries through Integrated Innovation.** Our primary priority is: **Solving critical global health challenges.**

1.2 BACKGROUND

The Problem

Despite more than a decade of focus on the Millennium Development Goals, intolerable inequities in health between high- and low-income areas in the world persist. For example, malnutrition in children is over 10 times more prevalent in developing countries than developed countries, a newborn is over 35 times more likely to die in the first month of life in the developing world than in developed countries, a woman in a low-income region is 50 times more likely to die in pregnancy and childbirth than a woman in a high-income region, and tuberculosis is still over 100 times more prevalent in sub-Saharan Africa than it is in North America.

In addition, many low- and middle-income countries are now facing a double burden of disease, with non-communicable diseases and conditions such as mental health issues, hypertension, cancer and injuries (which previously were predominant only in developed nations) joining infectious diseases to magnify this health disparity.

Historically, some of the greatest impact in global health was from innovators who tried out bold ideas. The discovery of vaccines over 200 years ago and of antibiotics in the last century are classic examples of unorthodox thinking that resulted from **bold ideas** that have had **big impact** and saved millions of lives.

Integrated Innovation®

Grand Challenges Canada has developed the Stars in Global Health program to support **bold ideas with big impact** from the best and brightest talent. At the core of our operating philosophy is **Integrated Innovation**, which is the coordinated application of scientific/technological, social and business innovation to develop solutions to complex challenges, and to identify and overcome barriers in order to sustainably bring these solutions to scale. (Please see www.grandchallenges.ca/integrated-innovation.) The tremendous skills and knowledge of the Stars innovators mean that we can harness opportunities to address these global health challenges.

Scalability and Sustainability

Grand Challenges Canada expects that the innovative ideas it funds will eventually be scaled up through partnerships, either from the private sector, the public sector or a combination of both. Applicants should convincingly show in their application how and why they think their projects will eventually be scaled.

Private Sector Scaling: Examples of scaling through the private sector are those projects that are commercially viable or provide value to attract a private sector partner, either because production costs and sales prices are such that they are profitable, there is Shared Value¹, or beneficiaries demand the innovation and are willing to pay for it themselves.

Public Sector Scaling: These are projects that are likely to compel host country government ministries and departments, multilateral donors or other public sector players to scale them. These projects will provide evidence of cost-effectiveness that results in action.

Social Entrepreneurship

Social entrepreneurs are individuals with innovative solutions to society's most pressing social problems. They are ambitious and persistent, tackling major social issues and offering new ideas for wide-scale change.²

Whereas business entrepreneurs typically measure performance in profits, social entrepreneurs also take into account a positive return to society. Grand Challenges Canada believes social entrepreneurship is a critical feature to enable scaling, sustainability and the ultimate achievement of impact. Social enterprises are strongly encouraged to apply to this Request for Proposals.

¹ Shared Value is the creation of economic value in a way that also creates value for society.

² See www.ashoka.org/social_entrepreneur.

2. Approach

2.1 PROGRAM GOAL

The goal of this Request for Proposals is to support **Bold Ideas** for solutions to global health problems from innovators in eligible countries (as outlined in Section 4.1 of this Request for Proposals). We seek **ideas** that are **bold, innovative, transformational and ‘outside-the-box’** that have the potential to make a substantial impact on a global health problem.

2.2 PROGRAM SCOPE

Grand Challenges Canada seeks bold ideas aligned with innovative social entrepreneurial approaches that could be easily implemented in developing countries to save and improve lives. These bold ideas could come from non-profit organizations and for-profit organizations, as well as other recognized institutions.

The focus of this call is not on the organization itself, but on the concept of social entrepreneurship in the proposal. The concept must be **novel, bold, innovative, transformational and ‘outside-the-box’**. Existing social entrepreneurial ideas are welcomed so long as there is a clear innovative (novel) component being introduced.

For examples of previously funded projects, please view a recent blog post by Andrew Taylor and Ken Simiyu, www.grandchallenges.ca/2013/stars-in-global-health-portfolio-review/.

To view the full list of the ~300 Proof-of-Concept (Phase I) projects that we have supported in Rounds 1 through 5, please visit www.grandchallenges.ca/our-grantees/.

The proposed innovations would need to:

1. Have a strong likelihood of achieving substantial and measurable health gains in an under-resourced setting
2. Maximize delivery, uptake, acceptability, sustainability and impact by integrating scientific/technological, social and business innovation. We call this Integrated Innovation®. (See the Integrated Innovation white paper available at www.grandchallenges.ca/integrated-innovation/.)

Desirable attributes include:

- Approaches that can be used effectively to improve health in communities with no or only basic healthcare infrastructure/personnel
- Solutions appropriate for settings with limited infrastructure (e.g., lack of electricity or clean water, etc.)

- Approaches that minimize maintenance and training
- Solutions that can be easily assimilated into cultural practices and existing health delivery mechanisms (including in communities with no or basic health clinics)
- Extreme affordability
- Approaches that reflect an understanding of the target user market and address the needs of this user
- Solutions that include a solid business plan to drive market penetration and uptake in poor countries **that will lead to sustainable social enterprises.**

We will *not* consider funding solutions that are not applicable to a low-resource, developing world setting.

Previously funded projects have been in the following areas:

- **Social enterprises** that solve social problems and provide social benefits in a commercially sustainable way
- Technological innovations that improve prevention, diagnosis or treatment of disease conditions
- Mental health approaches appropriate for the developing world
- Health/medical education and behaviour change approaches targeted at policy makers, intermediaries and users that improve ultimate health outcomes and save lives
- Approaches in water, agriculture and sanitation that create demand and market, and improve health and/or save lives
- Service provision, or innovative business and financial models that increase access to health services.

2.3 SIZE AND LENGTH OF GRANTS

Assuming a sufficient number of proposals of merit, we aim to fund 70–100 projects in this round. We anticipate that the proportion of awardees will be at least 65% from low- and middle-income countries (LMICs), with the balance from Canada. Awards are valued at \$100,000 CAD for 12 or 18 months to demonstrate proof of concept of the idea.

Proof of Concept (Phase I) grantees who complete a minimum of nine months of their Grand Challenges Canada grant, complete their proof-of-concept projects (including a final report) and have solutions that are ready to transition to scale will be invited to submit a **Transition to Scale (Phase II)** Letter of Intent. **Transition to Scale (Phase II)** will require the engagement with ‘smart partners’ that will enable the scaling of the innovation (Refer to FAQ for a description of who is a ‘smart partner’). To ensure

commitment of these smart partners, 50% matching of funds at the Transition to Scale (Phase II) stage is required to be eligible for Grand Challenges Canada funding.

3. Activities and Deliverables

The innovators/social enterprises funded under this effort will be expected to engage in the activities and provide the specific deliverables listed below, which will help to demonstrate project progress and success:

- Progress reporting, including periodic conversations via teleconference and written reports upon request
- Dissemination of knowledge through publications in peer-reviewed literature, etc.
- Provision of a final report that captures a clear assessment of the potential impact of the project; instructions for reporting will be provided to successful grant recipients. This report will also identify social, cultural and commercialization barriers to implementation, and an initial plan for scaling the intervention that addresses these barriers.

In addition to engaging in activities related to their proposed project, grantees will be expected to:

- Where appropriate, actively participate in meetings/workshops that bring together grantees to share learning and best practices
- Commit to Grand Challenges Canada's Global Access, Data Access and Ethics policies (see www.grandchallenges.ca/resources/)
- Participate in public engagement activities.

4. Rules and Guidelines

The Canadian Institutes of Health Research oversees the peer review process, and Grand Challenges Canada's Board of Directors makes the final funding decisions.

4.1 ELIGIBILITY CRITERIA

1. Eligible applicants include social enterprises (non-profit organizations and for-profit companies) and other recognized institutions that are legally registered or incorporated in an eligible jurisdiction, as set out below, that can successfully execute the activities in their respective technical area, and are capable of receiving and administering grant funding.
2. Applicants from the following list of countries are eligible to apply to this round of the Stars in Global Health Request for Proposals. For the purposes of determining eligibility, Grand Challenges Canada may consider both the applicant's home jurisdiction and any other jurisdiction within which grant project activities will take place. The list of countries is based on considerations such as the World Bank's classification of low- and lower-middle-income countries,

Canadian International Development Agency Countries of Focus, and other countries of strategic priority for Canada.

This list is subject to revision by Grand Challenges Canada without notice. Notwithstanding inclusion below, all eligible jurisdictions remain subject to approval by Grand Challenges Canada on the basis of compliance with all relevant Canadian and international laws and policies. Whenever possible, Grand Challenges Canada will provide reasonable notice of a determination of ineligibility for applicants located within jurisdictions listed below.

<i>Afghanistan</i>	<i>Guyana</i>	<i>Peru</i>
<i>Antigua and Barbuda</i>	<i>Haiti</i>	<i>Philippines</i>
<i>Armenia</i>	<i>Honduras</i>	<i>Rwanda</i>
<i>Bangladesh</i>	<i>India</i>	<i>Samoa</i>
<i>Belize</i>	<i>Indonesia</i>	<i>São Tomé and</i>
<i>Benin</i>	<i>Jamaica</i>	<i>Principe</i>
<i>Bhutan</i>	<i>Kenya</i>	<i>Senegal</i>
<i>Bolivia</i>	<i>Kiribati</i>	<i>Sierra Leone</i>
<i>Burkina Faso</i>	<i>Kosovo</i>	<i>Solomon Islands</i>
<i>Burundi</i>	<i>Kyrgyz Rep.</i>	<i>Somalia</i>
<i>Cambodia</i>	<i>Lao PDR</i>	<i>South Sudan</i>
<i>Cameroon</i>	<i>Lesotho</i>	<i>Sri Lanka</i>
<i>Canada</i>	<i>Liberia</i>	<i>St. Lucia</i>
<i>Cape Verde</i>	<i>Madagascar</i>	<i>St. Vincent and the</i>
<i>Central African Rep.</i>	<i>Malawi</i>	<i>Grenadines</i>
<i>Chad</i>	<i>Malaysia</i>	<i>Sudan</i>
<i>Colombia</i>	<i>Mali</i>	<i>Suriname</i>
<i>Comoros</i>	<i>Mauritania</i>	<i>Swaziland</i>
<i>Congo, Dem.Rep.</i>	<i>Micronesia, Fed.Sts</i>	<i>Tajikistan</i>
<i>Congo, Rep.</i>	<i>Moldova</i>	<i>Tanzania</i>
<i>Côte d'Ivoire</i>	<i>Mongolia</i>	<i>Thailand</i>
<i>Djibouti</i>	<i>Montserrat</i>	<i>Timor-Leste</i>
<i>Dominica</i>	<i>Morocco</i>	<i>Togo</i>
<i>Egypt, Arab Rep.</i>	<i>Mozambique</i>	<i>Uganda</i>
<i>El Salvador</i>	<i>Myanmar</i>	<i>Ukraine</i>
<i>Ethiopia</i>	<i>Nepal</i>	<i>Uzbekistan</i>
<i>Gambia, The</i>	<i>Nicaragua</i>	<i>Vanuatu</i>
<i>Georgja</i>	<i>Niger</i>	<i>Vietnam</i>
<i>Ghana</i>	<i>Nigeria</i>	<i>West Bank</i>
<i>Grenada</i>	<i>Pakistan</i>	<i>Yemen, Rep.</i>
<i>Guatemala</i>	<i>Papua New</i>	<i>Zambia</i>
<i>Guinea</i>	<i>Guinea</i>	<i>Zimbabwe</i>
<i>Guinea-Bissau</i>	<i>Paraguay</i>	

Country/Organizational Partnerships

Within the Stars in Global Health program, Grand Challenges Canada is working towards developing strong collaborations with like-minded partners (both at a country and organizational level). These partners could co-review and provide shared or full funding of Proof of Concept (Phase I) projects. Each collaboration may be uniquely tailored to meet the needs of the respective partner, and this may include variations in the review and funding process for relevant applications.

3. **Canadian Applicants:** It is mandatory for all applicants from Canada to have a collaborator based in an eligible developing country. (See Section 4.1.2 above.) (Existing and/or new collaborations are equally encouraged, particularly those that will bring additional components of Integrated Innovation to your project: scientific/technological, social and business innovation.)
4. It is not mandatory for applicants from any other eligible country to have a collaborator. However, existing and/or new collaborations are encouraged, particularly those that will bring additional components of Integrated Innovation to your project: scientific/technological, social and business innovation.
5. **Mentorship:** Early career investigators (less than 10 years in their career) are highly encouraged to have mentors. However this requirement is not mandatory.

Grand Challenges Canada may, at any time and at its sole discretion, modify eligibility criteria with respect to individual applicants, principal investigators or the Stars in Global Health program, to the extent that such modifications do not materially undermine the review process. (See Section 4.3)

4.2 APPLICATION INSTRUCTIONS

Applicants **MUST** apply **online** through an application website. A link to the application website will be available on the Grand Challenges Canada website at www.grandchallenges.ca/grand-challenges/stars-phase-i/.

The full proposals will consist of:

- a brief (two-page) written proposal
- the applicant's (Principal Investigator's) *curriculum vitae* (CV)
- a two-minute video explaining the target global health problem, the proposed solution, and why it is a creative, bold and innovative approach.

Both the application and the video can be submitted in either English or French, or both. We will put the videos on a publicly available website for public viewing and voting.

Applications in other languages will not be considered.

The video must not exceed two minutes; **any videos that are longer than two minutes will not be reviewed past the two-minute mark and will be truncated before the review.** Please note you must get permission to use someone else's song, images or footage in your video. Please refer to the Stars in Global Health FAQ for more information.

These videos will be submitted to Grand Challenges Canada as part of the application for its Stars in Global Health program. Grand Challenges Canada does not endorse the content of these videos and takes no responsibility for the accuracy of their content or the process by which they were filmed.

Please note the applicants are required to seek and obtain sign-off from their affiliated organization/institution(s) before submitting their application to the Stars in Global Health program.

All successful applicants must take up the grant no later than six months after the receipt of a signed grant agreement from Grand Challenges Canada. Any deferral beyond this period may result in the forfeiture of the award.

All successful applicants must complete their project no sooner than nine months and no later than 18 months to be eligible for Transition to Scale (Phase II) funding. No-cost extensions will not be provided, and exceptions are at Grand Challenges Canada's sole discretion.

4.3 REVIEW PROCESS

Due to the overwhelming demand for this program, Grand Challenges Canada and the Canadian Institutes of Health Research will implement a two-stage peer review process.

Stage I – Innovation Screen

The goal is to screen proposals that are of high quality (based on the criteria below) to proceed to Stage II.

In this stage, reviewers will screen only project summary paragraphs using the Innovation Screen Criteria (below) to decide if applications will proceed to the next evaluation step. Thus, it is critical to that the summary paragraph clearly demonstrate why your application is innovative. Each criteria will carry equal weight.

The Innovation Screen Criteria are as follows.

a) **Priority Country**

Priority will be given to applications from regions that are of strategic priority for Canada and Grand Challenges Canada.

b) **Boldness, Creativity and Integrated Innovation**

Is the proposed idea innovative and bold? Is it "outside the box"? Does it have the potential to leap-frog conventional approaches? Is the proposed idea creative enough to have the potential to tackle a global health problem from a different angle, in order to make a substantial impact? Does the proposed idea integrate scientific/technological, social and business innovation?

c) **Social Entrepreneurship, Scaling and Sustainability**

Does the proposed idea have a path to and potential for impact at scale? Has it involved smart partners who can help the innovation, if it reaches proof of concept, to scale? Does the innovation have the potential to leverage funding if it reaches proof of concept? Is there an element of social entrepreneurship in the proposal? According to the Skoll Foundation, social entrepreneurs are society's

change agents, creators of innovations that disrupt the status quo and transform our world for the better.

Stage II: Independent Peer Review of Screened Proposals from Stage I

This will be implemented and overseen by the Canadian Institutes of Health Research (CIHR). The Peer Review Committee will include science/technology, social and business experts from high-, middle- and/or low-income countries. The Committee will advise on the merit of proposals, based on the evaluation criteria as outlined in the Request for Proposals. (See Section 4.4)

Proposals in Stage II will be evaluated and ranked only with respect to the other proposals submitted to the same stream of funding. The Committee's funding recommendations will be forwarded by CIHR to Grand Challenges Canada. The final selection decisions will be made by the Board of Directors of Grand Challenges Canada at the Board's sole discretion, including its reserved rights set out in Section 4.11.

4.4 EVALUATION CRITERIA

1. **Boldness, Creativity and Integrated Innovation – 25%**
Is the proposed idea innovative and bold? Is it "outside the box"? Does it have the potential to leap-frog conventional approaches? Is the proposed idea creative enough to have the potential to tackle a global health problem from a different angle, in order to make a substantial impact? Does the proposed idea integrate scientific/technological, social and business innovation?
2. **Social Entrepreneurship, Scaling and Sustainability – 25%**
Does the proposed idea have a path to and potential for impact at scale? Has it involved smart partners who can help the innovation, if it reaches proof of concept, to scale? Does the innovation have the potential to leverage funding if it reaches proof of concept? Is there an element of social entrepreneurship in the proposal? According to the Skoll Foundation, social entrepreneurs are society's change agents, creators of innovations that disrupt the status quo and transform our world for the better.
3. **The Principal Applicant and Team – 25%**
Does the principal applicant and team have the skills to carry out the proposed activity? Do they demonstrate the commitment and leadership needed to bring ideas to scale? Is the innovator able to present their approach to the public in an engaging manner? Is the principal applicant a social entrepreneur?
4. **Technical Merit/Execution Plan – 15%**
Are feasible activities set out for the timeline of the Proof-of-Concept Phase I grant? Does the environment in which the work will be performed contribute to the probability of success? Does the approach and budget represent an efficient use of resources?

5. **Cross-Cutting Themes – 10%**

Proposed bold ideas that touch upon these cross-cutting themes will be favoured:

- a. **Gender Equality:** GCC is committed to furthering principles of gender equality in the projects it funds. More specifically, GCC is supportive of the following objectives: (1) advancing women's equal participation with men as decision-makers in shaping the sustainable development of their societies; (2) supporting women and girls in the realization of their full human rights; and (3) reducing gender inequalities in access to and control over the resources and benefits of development.
- b. **Good Governance:** GCC is committed to furthering principles of good governance in the projects it funds. This includes the promotion of good governance principles of participation, inclusion, equity, transparency, accountability, efficiency and effectiveness in the applicant's project.
- c. **Environment:** GCC requires that applicants commit to ensuring that the project will not have an adverse environmental effect (including, but not limited to, long-term and cumulative effects). Where possible, applicants should incorporate having positive environmental effects throughout the project.

These three cross-cutting themes will be specifically evaluated at Phase II, but applicants should begin to incorporate them throughout the project at Phase I.

4.5 APPLICATION SCHEDULE

Please see www.grandchallenges.ca/grand-challenges/stars-phase-i/ for application guidelines and submission instructions.

Completed proposals must be received by **Monday, March 10, 2014, at 3:00 p.m. ET.**

Key Deadlines	Event
March 10, 2014	Application deadline at 3:00 p.m. ET
July 2014	Notification of award
Fall 2014	Award to be taken up

4.6 ALLOWABLE COSTS

Grant funds may be used for the following cost categories. Budget categories should not exceed the allowable costs per category as listed below. Total Budget should not exceed \$100,000 CAD direct costs and \$12,000 CAD indirect costs, for a total of \$112,000 CAD.

Category	Description	Maximum allowable cost (CAD)
Personnel	<p>Includes all salaries, allowances, honoraria, and benefits paid to staff members who are directly contributing to the activities of the project. Such costs typically include:</p> <ul style="list-style-type: none"> • Principal Investigator and Co-Principal Investigators • Project Coordinator • Technicians • Research assistants who are directly related to the activities of the project. <p>For all personnel, indicate the percentage of Level of Effort (%LOE). For example, if Personnel A will spend half his/her time working on this project, the % LOE would be 50%.</p> <p>Please be ready to send a salary grid/scale of your institution to support the amounts budgeted.</p> <p>Does NOT include support staff who will assist in the administration of the grant. They would be listed under Indirect Costs. For example:</p> <ul style="list-style-type: none"> • Administrative assistants • Finance staff (accountants, grant administrators, etc.) 	\$ 40,000
Consultants	<p>All expenses related to acquiring the services of a consultant for a specific activity within the project can be included in this category. Each consultant's rate must be specified. Costs may also include travel, accommodation, living expenses, and support services hired directly by the consultant.</p>	\$ 25,000
Travel	<p>International travel costs must be related to the project activities and incurred by the staff members who work on the project. The costs should include: airfare, ground transportation, accommodation, meals/per diem, etc. Specify where, when, how many people, and the relation to the project objectives. For airfare, economy class must be used at all times. Note: Local travel costs should be placed under Other Research.</p>	\$10,000
Direct Supplies and Services	<p>Includes all Direct Supplies and Services costs that are required to carry out the project.</p>	\$25,000

Equipment	Equipment includes items that have a useful life of more than one year and costs more than \$1,000 CAD. Costs may include the basic purchase price, freight and installation of the equipment. However, Grand Challenges Canada does not pay import duties and/or sales tax on equipment; these costs remain the responsibility of the grantee.	\$25,000
Other Research Costs	Includes all other research costs that do not fall under the definition of Personnel, Consultant, Travel Consultant, Direct Supplies and Equipment. Examples of Other Research Costs are dissemination costs, patent fees, meeting costs (seminars, workshops, training, etc.), ethics submission costs, etc.	\$25,000
Sub-Grants and Subcontracts	The distinction between sub-grants and subcontracts should be made primarily based on the following definitions: Sub-grants will be responsible for some of the research activities and will be compensated accordingly. The sub-grant may include direct costs and indirect costs, as defined above. Subcontractors will provide technical services (for example, a lab doing tests for the Principal Investigator/grantee) and will be paid based on services provided. Part of indirect costs can be applied to subcontractors, if agreed by all parties.	\$25,000
Indirect Costs	Please note: Grand Challenges Canada will provide a limited amount of indirect costs, based on the nature of the applicant organization, to a <i>maximum of 12% of direct costs</i> of the grantee's administered grant value (refer to the seven categories outlined above). This amount will be in addition to the \$100,000 CAD of direct costs (i.e., total value of the grant will be \$100,000 + 12% = \$112,000 CAD).	\$12,000

At least some of the budget and activities **MUST** be spent/carried out in a developing country/countries.

Proposals with thoughtful and efficient use of resources will be preferred over proposals representing comparable efforts that do not have the same value for the investment. In some circumstances (e.g., rapidly changing technologies), subcontracting specific project activities to an outside institution with the infrastructure and expertise to deliver results may be considered advantageous over establishing in-house capacity.

4.7 PRIVACY NOTICE

To help us in the evaluation and analysis of projects, all proposals, documents, communications and associated materials submitted to Grand Challenges Canada (collectively, “Submission Materials”) will become the property of Grand Challenges Canada, and will be shared with other members of the Grand Challenges Canada consortium (the International Development Research Centre and Canadian Institutes of Health Research) and other funding partners or potential funding partners. We will report publicly on the number of applications received and the countries from which they originated.

The proposals will be subject to confidential external review by independent subject-matter experts and potential co-funders, in addition to analysis by our staff. Please carefully consider the information included in the Submission Materials. If you have any doubts about the wisdom of disclosure of confidential or proprietary information, we recommend you consult with legal counsel and take any steps you deem necessary to protect your intellectual property. You may wish to consider whether such information is critical for evaluating the submission, and whether more general, non-confidential information may be adequate as an alternative for these purposes.

We respect confidential information we receive. Nonetheless, notwithstanding your characterization of any information as being confidential, we may publicly disclose all information contained in Submission Materials to the extent as may be required by law, and as is necessary for potential co-funders and external reviewers (such as government entities) to evaluate them and the manner and scope of potential funding, consistent with appropriate regulations and their internal guidelines and policies.

4.8 WARRANTY

By providing any Submission Materials, the sender warrants to Grand Challenges Canada that they have the right to provide the information submitted. Applicants with questions concerning the contents of their Submission Materials may contact Grand Challenges Canada by email at stars@grandchallenges.ca.

4.9 INTELLECTUAL PROPERTY

Since the output of this program may lead to innovative technologies and/or products for those that need them most in the developing world, the successful development of these products may require the involvement and support of the private sector, and may also involve collaborations with multiple organizations, including academic and/or non-profit research institutions. It is the intent of this program to support the formation of appropriate public-private partnerships that are essential to meet urgent global health needs. Intellectual property rights and the management of intellectual property rights are likely to play an important role in achieving the goals of this program. Grand Challenges Canada’s Global Access Strategy will guide our approach to intellectual property and we urge all applicants, even at the application stage, to consider their willingness to submit

a full proposal in compliance with Grand Challenges Canada's Global Access Policy, the guiding principles of which are as follows:

- Breakthrough solutions to global challenges are made accessible to those in need, particularly in the developing world. Accessibility relates to both price and availability.
- Knowledge gained through discovery is broadly, and as promptly as possible, distributed between related projects and to the global scientific community.
- Commercialization of resulting outputs is encouraged, as long as the first two principles are achieved.

Grantees will be required to sign a Global Access Agreement as part of their grant agreement with Grand Challenges Canada, in line with the Guiding Principles, for the use of intellectual property and other outputs arising from this program. This may include a non-exclusive, perpetual, irrevocable, royalty-free, fully-paid, sub-licensable, and assignable license with respect to all outputs arising from the work carried out by the grantee, or at the grantee's direction, in connection with this Grand Challenges Canada grant, to permit Grand Challenges Canada (and its sub-licensees) to use, educate, conduct research, develop, make, have made, import, export, sell, offer for sale, or distribute products, processes or solutions in developing markets for the purposes of global access. For further information, please refer to Grand Challenges Canada's intellectual property policy at www.grandchallenges.ca/resources/.

4.10 DATA ACCESS

Grand Challenges Canada is committed to optimizing the use of data to translate knowledge into life-saving solutions. To fulfill this objective, data must be made widely and rapidly available to the Grand Challenges Canada community and the broader global health community through ethical and efficient data access practices. In accordance with global access, data access represents an elaboration of the second guiding principle of the Global Access Policy, which states that knowledge gained through discovery is broadly, and as promptly as possible, distributed between related projects and to the global scientific community.

At a minimum, 'data' refers to final, annotated quantitative and qualitative datasets and accompanying information, such as metadata, codebooks, data dictionaries, questionnaires and protocols.

Grand Challenges Canada recognizes the value of intellectual property and commercialization, and the benefits of first and continuing use of data, but not prolonged or exclusive use. In some cases, intellectual property protection, laws or regulations may delay or preclude access to data. In such cases, the grantee will provide justification to warrant a partial or complete waiver of the data access requirement.

4.11 NATURE OF THIS PROGRAM

This Request for Proposals is part of a discretionary granting program. Submission of an application does not create a contractual relationship between the applicant and Grand Challenges Canada.

Furthermore, all applicants acknowledge that this program is being tested through this Request for Proposals and that all terms are subject to change. In particular, Grand Challenges Canada reserves the right, in its sole discretion and without notice, to:

1. Cancel this Request for Proposals at any time and for any reason
2. Amend and reissue the Request for Proposals at any time and for any reason
3. Accept or reject any application that is non-conforming because it does not meet the eligibility criteria, does not comply with the application instructions, and/or does not comply with the instructions for allowable costs
4. At Grand Challenges Canada's sole discretion, not award an application based on performance on a previous Grand Challenges grant or project, or based on the award of a grant to the applicant for the same or similar research by one of Grand Challenges Canada's partners or collaborating institutions
5. Not fund any application with proposed activities that might be prejudicial to the relations between Canada and other countries.
6. Disqualify any application at any stage where there is an indication that the proposal was, in any way, plagiarized
7. At Grand Challenges Canada's sole discretion, accept or reject any or all applications, regardless of an application's ranking based on the evaluation criteria, with or without providing an explanation
8. Award a fewer number of awards than expected
9. Award applications with different funding amounts, different durations and/or different conditions than set out above
10. Verify any information provided by applicants through independent research or by contacting third parties deemed to be reliable by Grand Challenges Canada and use that information to inform Grand Challenges Canada's funding decision
11. Modify eligibility and evaluation criteria, including but not limited to criteria assessed at the screening stage, at any time
12. Use video or other visual representation submitted by applicants on the Grand Challenges Canada website for public engagement
13. Not provide critiques or feedback regarding the reasons a proposal was or was not selected
14. Design grant awards to link to possible funding partners, including private sector investors.

5. Research Assurances

It is the policy of Grand Challenges Canada that research involving human subjects, research with animals and research subject to additional regulatory requirements must be conducted in accordance with the highest internationally recognized ethical standards. In order to receive funds from Grand Challenges Canada, initially and throughout the course of a research project, researchers must affirm and document compliance with the guiding ethical principles and standards outlined below:

1. Research involving human participants must be conducted in a manner that demonstrates, protects and preserves respect for persons, concern for the welfare of individuals, families and communities, and justice.³
2. Research involving animals must be conducted in a manner that ensures their humane care and treatment.
3. Certain research endeavours, including but not limited to research with recombinant DNA, biohazards and genetically modified organisms, may be subject to enhanced regulation and oversight.

While not necessary for this application and as applicable to the individual project, Grand Challenges Canada will require that, for each venue in which any part of the project is conducted (either by your organization or a sub-grantee or subcontractor), all legal and regulatory approvals for the activities being conducted will be obtained in advance of commencing the regulated activity. We will further require you to agree that no funds will be expended to enroll human subjects until the necessary regulatory and ethical bodies' approvals are obtained. For further details, please see Grand Challenges Canada's Ethics Policy at www.grandchallenges.ca/resources/.

Questions about the Stars in Global Health program or the application process should be addressed to stars@grandchallenges.ca. Responses to frequently asked questions will periodically be posted on our website at www.grandchallenges.ca/grand-challenges/stars-phase-i/.

³ Modified from the core principles articulated in Tri-Council Policy Statement 2 (www.pre.ethics.gc.ca/eng/policy-politique/initiatives/tcps2-eptc2/chapter1-chapitre1/#toc01-1b)