

Grand Challenges:
***Campylobacter spp.* Transmission Dynamics in**
Low- and Middle-Income Countries
Rules & Guidelines

Applications due no later than Wednesday, May 2, 2018, 11:30 a.m. U.S. Pacific Daylight Time

I. Overview

Grand Challenges is a family of initiatives fostering innovation to solve key problems in global health and development for those most in need. Each initiative is an experiment in the use of challenges to focus innovation on making an impact. Individual challenges address some of the same problems, but from differing perspectives.

Grand Challenges principles:

1. *Strategic and well-articulated Grand Challenges serve both to focus research and development efforts and to capture the imagination of and engage the world's best researchers and innovators.* The Grand Challenges model focuses on seeking solutions to well-defined problems. The initiative brings these problems to the attention of relevant communities of solvers, both individuals and organizations, and invites creative and forward-thinking approaches to address issues that, if solved, can dramatically improve the world we live in.
2. *Projects are selected based on public and transparent calls for proposals seeking the best ideas.* The Grand Challenges programs do not purport to know the solutions to the world's most pressing development issues—but they are willing to take risks and invest to create new solutions. The Grand Challenges model aims to engage new solvers with fresh ideas.
3. *Funders, innovators and other stakeholders actively collaborate to accelerate progress and promote advances to ensure they serve those most in need.* The public, private, academic and nonprofit sectors must work together to accelerate and scale up innovations that can improve the lives of those most in need.
4. *Projects are selected not only for scientific excellence but also for the likelihood that they will achieve the desired scale and impact.* Successful applicants present projects that, when proven successful through the collection of rigorous evidence, have the potential to serve those most in need. Investing in scientific innovation—as well as in the business and social innovation needed to increase impact at scale—will help ensure that these efforts have the greatest possible impact in terms of lives saved or improved.
5. *Researchers and innovators work to ensure that the fruits of their projects are accessible and available to those most in need.* Fostering ties to industry, both by helping bridge the private and public sectors or by directly funding a company, can create sustainable enterprises, and reduce the time from discovery to development, production and impact. Key to this is developing global access strategies to ensure that those most in need benefit from new solutions.

Tips for Applicants

- ❖ Your proposal must comply with all restrictions and guidelines for the challenge to which you are applying, and it must explain how it addresses a key need highlighted in the challenge description. In addition, the challenge description highlights ideas that will not be funded, so applicants should make sure that their idea does not fall into one of these categories. The foundation only funds projects responsive to the Request for Proposals as it has a number of other avenues of funding for the equally important research that is otherwise within currently accepted program paradigms.
- ❖ The work proposed in your application must include a clear set of key experiments or activities that test your idea in a way that could provide sufficient evidence to warrant funding. Proposals with vague descriptions or vague testing methodologies will not be funded.
- ❖ The proposed project should have a clearly articulated goal, usually in terms of proving a hypothesis that if proved could lead to significant impact if properly scaled. The project plan should be organized by objectives that are logically required to achieve the goal of the project and should include a plan to **prove or disprove the underlying hypothesis** in an efficient and logical manner.
- ❖ Not all the reviewers for each proposal will be deep experts in the field. To maximize the chance of being funded, proposals should be written in clear language without jargon specific to a particular field.
- ❖ Your organization must meet the eligibility requirements as specified in this document and further refined in each of the challenge calls.
- ❖ The impact of the proposed work **must** be focused on one of the foundation priority [strategic health and development strategies](#).

II. Application Instructions

Schedule

Key dates and deadlines for 2018 Grand Challenges

Key Dates*	Event
March 5, 2018	Topics Published
May 2, 2018, 11:30am PDT	LOI due

**Note, any changes to these dates will be posted on the Grand Challenges website*

Applicants can expect to hear if their LOI is selected to move forward in June 2018. Full proposals will be invited from selected applicants and we expect to make funding decisions by October 2018.

How to Apply

Changes to the Rules and Guidelines and to the Frequently Asked Questions (FAQ) document will be posted periodically on the webpage for each open challenge at the Grand Challenges website (gcgh.grandchallenges.org), including any changes to the dates listed above. Please read the current FAQ before submitting any questions or concerns.

Letter of Inquiry (LOI) Application Format

We encourage you to use the provided RFP-specific [LOI instructions document](#), which can be downloaded after clicking “Apply Now” on each application page and can also be found under “Supporting Materials” on [the challenge page](#). You are required to submit either a Microsoft Word® or PDF document; no more than four pages in length (including references). Please do not include a cover sheet with your proposal. A cover sheet will be automatically generated from your registration data.

The LOI application must include the following sections and must **not exceed the total page limit of 4 pages**. An outline for the LOI application, including recommended page allocations, is provided below:

I. **Executive Summary (~1/2 page)**

The summary should indicate the specific problem that the project seeks to address, the approach proposed to solve this problem, and the expected impact of the project – if successful – at the end of the grant period. At the beginning of this section, **include one or two sentences in bold that capture the essence of your idea.**

II. **Goals (~1 page)**

Describe the specific goals of the project and how they are responsive to the objectives noted in the Request for Proposals. Describe the gap in knowledge in *Campylobacter* transmission that the proposed study will fill. Specify any hypotheses that will be tested. If applicable, briefly present any relevant preliminary data. Indicate the expected results from the project. Briefly indicate what the next steps might be and how the project’s results could lead to interventions to improve health.

III. **Approach (~1 page)**

This section should include a clear articulation of the research questions and a description of the proposed research study. Please include study design, methods to be used for surveillance of infection in humans and animals, collection of environmental samples, and detection of *Campylobacter*. Please include a brief description of planned sampling strategy, or if samples

were already collected as part of a previous study, please include a description of how they were collected and stored.

IV. **Organization and Investigator Capabilities & Collaboration (~1/2 page)**

Summary of the lead PI's and applicant organization's previous experience and expertise that is relevant to this call. A description of collaborations, and if/how partnerships will be established (letters of support are not expected at this stage). This should include a description of where samples will be stored and analyzed, a plan to store isolates for future studies as well as a plan to share data.

VI. **Budget (~1/2 page)**

Summarize by research objective for each year of the project.

Proposals for Grand Challenges 2018 must be submitted prior to the submission deadline of 11:30am Pacific Daylight Time on May 2nd, 2018.

During the application process you will be required to confirm that you have read and understand the [Website Terms of Use and Privacy Policy](#), and these Rules and Guidelines, and acknowledge that any information that you provide to us (either orally or in writing) will be subject to and handled in accordance with such provisions.

Eligibility Criteria

Grand Challenges is open to both foreign and domestic organizations, including non-profit organizations, for-profit companies, international organizations, government agencies and academic institutions. **Individuals and organizations classified as individuals for U.S. tax purposes are not eligible to receive an award from the foundation as part of the Grand Challenges initiative.**

Upon registration, applicants must provide information about the tax status of their organization as different terms and conditions may apply. You should confirm your organization's tax status with the appropriate advisor or entity within your organization such as your grants or contracts department, finance, or office of sponsored research. The foundation may request additional information regarding your tax status. For information about tax statuses, you may check with your own advisors and review information provided on the Internal Revenue Service web site at: www.irs.gov.

Each challenge published under the Grand Challenges may include additional instructions with regard to specific limitations regarding eligibility for that challenge.

III. Review Process

The review of proposals is a critical element of the Grand Challenges initiative - its goal is to filter and harness creative ideas. For each challenge call, we advertise a set of challenges carefully defined to elicit innovative responses to critical barriers in global health and development.

Handling of Proposals

The foundation has put in place policies and procedures, exclusive to the Grand Challenges initiative, intended to restrict public dissemination of application materials. These policies and procedures include, when possible, having external reviewers sign confidentiality agreements and requiring that reviewers destroy or return to the foundation all copies of information acquired or created during the course of performing a review. In some instances, however, we are unable to put in place confidentiality agreements or to police the use of application materials.

Additionally, the foundation is required by the IRS to publish a list of its grants. The foundation also provides general descriptions of its grants on its web sites, in press releases, and in other marketing materials. Subject

to this [Privacy Policy](#), the foundation may also share [information you provide to us \(either orally or in writing\)](#) with third parties, including external reviewers, consultants, contingent workers, key partners and co-funders. These Rules and Guidelines are subject to these [Terms of Use](#).

Review of Proposals

Due to the large number of proposals anticipated, applicants with proposals that are not selected for award will receive a notification of decline without specific feedback. Nonetheless, applicants are encouraged to submit ideas in future years.

The Grand Challenges application review process for Phase I is executed in four steps:

1. The first step consists of screening LOI applications to evaluate whether proposals address the key needs described in the topic. We screen for responses that are completely unrelated or specifically excluded in the topic description. Excluded responses encompass ideas related to the topic but that, for strategic reasons, we are not funding under the Grand Challenges initiative. In addition, we exclude proposals considered incremental advances, appropriate responses that are similar to work in which the foundation or other Grand Challenges programs are already investing, or avenues of inquiry we deem ill-suited to the Grand Challenges initiative. Applicants with proposals removed from consideration during the screening process will be notified that their proposals were declined but will not receive specific feedback.
2. In the second step, reviews are chaired or co-chaired by technical leads from the foundation and other funding partners and are conducted by reviewers both outside and within the foundation. Reviewers are selected from the world's leading researchers and comprise both experts in the topic area and experts in complementary areas. Not all reviewers have deep expertise in the topic; please consider this information when drafting your proposal. Unlike most scientific funding programs, reviewers are encouraged to champion specific projects to be funded as part of the portfolio, without the need for a broad consensus on selections.

In order of importance, the criteria considered in these reviews are:

- Potential to lead to solutions with substantial **impact** related to the specific topic
 - Scientific and technical excellence & innovation**, including:
 - creativity of the project's approach and clear differentiation from existing approaches
 - a clear and rigorous conceptual framework for the activities
 - Project Plan, including:
 - investigator and organization capabilities and potential for collaboration
 - value** in terms of appropriateness of the budget and timeline relative to project complexity, risk, and potential impact
3. The third step is the validation and final selection of the LOI applications to be invited to submit full proposals by an Executive Committee. Invited proposals will be provided additional technical instructions at that time.
 4. The fourth step involves repeating step two, but with regard to evaluation of the full proposal and with the inclusion of a more detailed review of the project plan and capability to execute the work.
 5. The fifth step is the validation and final selection of the proposals to be funded by the Executive

Committee. The Executive Committee may recommend the proposal be funded, subject to specific modifications which will be negotiated as part of the award process.

6. The sixth and final step is a due diligence review and to directly discuss and negotiate any adjustments to the proposed project recommended by the Executive Committee. Investigators will be contacted as part of the due diligence review.

Management of Conflict of Interest

To identify and avoid conflicts of interest among application reviewers, such reviewers will not be permitted to review proposals from organizations with which the reviewer has self-identified conflicts of interest.

IV. Eligibility and Notifications

A. Allowable Costs

Grant funds may be used for the following costs: personnel, necessary travel, supplies, contracted services, sub-grants, and consultants. Partial or full support for equipment may be requested subject to the circumstances described below. Please provide budget estimates according to these categories. The foundation provides a limited amount of indirect costs based on the nature of the applicant organization.

B. Privacy Notice

To help foundation staff in their evaluation and analysis of projects, all documents, communications and associated materials submitted to the foundation (collectively, "Submission Materials") will become the property of the foundation and may be subject to external review by independent subject matter experts in addition to analysis by foundation employees, contingent workers and/or consultants. Please consider carefully the information included in the Submission Materials. If you have any doubts about whether to disclose confidential or proprietary information, the foundation recommends you consult with your legal counsel. 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, the foundation may disclose all information contained in Submission Materials to the extent it determines is necessary to evaluate them and the manner and scope of potential funding and as may be required by law.

C. Disclaimer

Neither these Rules & Guidelines nor the associated challenge calls constitute an offer to contract or award grant funds. The foundation assumes no responsibility for the applicants' cost to respond to these calls.

D. Release and Verification

In exchange for the opportunity to be considered for a grant, contract or program-related investment (PRI) (per the relevant challenge call), the applicant agrees that the foundation may, in its sole discretion: (1) amend or cancel any challenge calls, in whole or in part, at any time; (2) extend the deadline for submitting responses; (3) determine whether a response does or does not substantially comply with the requirements of the challenge call and/or these Rules & Guidelines; (4) waive any minor

irregularity, informality or nonconformance with the provisions or procedures of the challenge call and/or these Rules & Guidelines; (5) issue multiple awards; (6) share responses generated by the challenge call and/or these Rules & Guidelines with foundation staff, consultants, contingent workers, subject matter experts, and potential co-funders; and (7) copy the responses.

Applicant agrees not to bring a legal challenge of any kind against the foundation relating to the foundation's selection and award of any grant, contract or award arising from these Rules & Guidelines and the associated challenge calls.

E. Warranty

By providing any Submission Materials, the sender(s) and applicant warrant to the foundation that they have the right to provide the information submitted and that such information is accurate. Any material misrepresentation, including omissions, may disqualify Submission Materials from consideration for a grant, contract or PRI award. Applicants with questions concerning the contents of their Submission Materials may contact the foundation at: grandchallenges@gatesfoundation.org

F. Intellectual Property (IP)

Since the output of this program may lead to innovative technologies, techniques and/or products that will result in improved health and development-related products for those in greatest need in the developing world, the successful development of these high priority products may require substantial involvement and support of private sector industries as sub-contractors, 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 and global development needs. IP rights and the management of IP rights are likely to play an important role in achieving the goals of this program. To this end, the foundation requires that, even at the LOI application stage, all applicants seriously consider their willingness to submit a full proposal in compliance with the foundation's proposal guidelines, a portion of which asks for certain information and intentions regarding intellectual property and global access concerns. Specifically, the

foundation requires that you agree to use good faith efforts to conduct and manage the research, technologies, information and innovations involved in the Project in a manner that enables (a) the knowledge and information gained during the Project to be promptly and broadly disseminated, and (b) the intended product(s) to be made available and accessible at an affordable price to people most in need in the developing countries of the world. The foundation refers to this as "Global Access."

As part of the foundation's review and evaluation of each full proposal, due diligence will be conducted with respect to each participant's ability and commitment to manage intellectual property in a manner consistent with the stated scientific and charitable goals of the foundation. Due diligence activities may include inquiry into an applicant's: (1) Freedom to operate (FTO) and ability to freely use and acquire needed background technology; and (2) Commitment to promote the utilization, commercialization and availability of inventions for public benefit in, or the benefit of, developing countries. In order to facilitate this due diligence process applicants are encouraged to provide information with respect to the items above in their submission materials.

Applicants are also expected to make new information and materials known to the research and/or medical communities in a timely manner through publications, web announcements, progress reports to the foundation, and other appropriate mechanisms. These concepts may be discussed at some length with

the applicants invited to submit full proposals, and will be addressed (to the extent appropriate) within each final grant agreement. The Global Access Strategy, developed in connection with each grant awarded to each applicant who submits a successful proposal, will also include provisions defining these concepts.

G. Compliance with Laws and Other Requirements

1. **Compliance with Laws.** In carrying out the individual project, you will comply with all applicable laws, regulations, and rules and will not infringe, misappropriate, or violate the intellectual property, privacy, or publicity rights of any third party.
2. **Compliance with Requirements.** You will conduct, control, manage, and monitor the individual project in compliance with all applicable ethical, legal, regulatory, and safety requirements, including applicable international, national, local, and institutional standards (“Requirements”). You will obtain and maintain all necessary approvals, consents, and reviews before conducting the applicable activity. As a part of your annual progress report to the foundation, you must report whether the individual project activities were conducted in compliance with all Requirements.

If the project involves:

- (a) any protected information (including personally identifiable, protected health, or third-party confidential), You will not disclose this information to the foundation without obtaining the foundation’s prior written approval and all necessary consents to disclose such information;
- (b) children or vulnerable subjects, you will obtain any necessary consents and approvals unique to these subjects; and/or
- (c) any trial involving human subjects, you will adhere to current Good Clinical Practice as defined by the International Council on Harmonisation (ICH) E-6 Standards (or local regulations if more stringent) and will obtain applicable trial insurance.

Any activities by the foundation in reviewing documents and providing input or funding does not modify your responsibility for determining and complying with all Requirements for the project.

3. **Indemnification.** If the project involves clinical trials, trials involving human subjects, post-approval studies, field trials involving genetically modified organisms, experimental medicine, or the provision of medical/health services (“Indemnified Activities”), you will indemnify, defend, and hold harmless the foundation and its trustees, employees, and agents (“Indemnified Parties”) from and against any and all demands, claims, actions, suits, losses, damages (including property damage, bodily injury, and wrongful death), arbitration and legal proceedings, judgments, settlements, or costs or expenses (including reasonable attorneys’ fees and expenses) (collectively, “Claims”) arising out of or relating to the acts or omissions, actual or alleged, of you or your employees, subgrantees, subcontractors, contingent workers, agents, and affiliates with respect to the Indemnified Activities. You agree that any activities by the foundation in connection with the project, such as its review or proposal of suggested modifications to the project, will not modify or waive the foundation’s rights under this paragraph. An Indemnified Party may, at its own expense, employ separate counsel to monitor and participate in the defense of any Claim. Your indemnification obligations are limited to the extent permitted or precluded under applicable federal, state or local laws, including federal or state tort claims acts, the Federal Anti-Deficiency Act, state governmental immunity acts, or state constitutions. Nothing in this agreement will constitute an express or implied waiver of your governmental and sovereign immunities, if any.

4. **Insurance.** You will maintain insurance coverage sufficient to cover the activities, risks, and potential omissions of the project in accordance with generally-accepted industry standards and as required by law. You will ensure your subgrantees and subcontractors maintain insurance coverage consistent with this section.

V. Privacy Notice and Terms of Use

Our full privacy policy and terms of use are located at [Privacy and Terms of Use](#).

Representation: By providing any submission materials, the sender represents to the Bill & Melinda Gates Foundation that he/she (i) has the authority to bind the named Applicant to the terms set forth above, without amendment, (ii) agrees to be bound by such terms; and (iii) has the right to provide the information submitted.

Please direct all questions about this initiative to: grandchallenges@gatesfoundation.org

VIII. Frequently Asked Questions

Answers to many application questions can be found on the [Frequently Asked Questions](#) document posted on the webpage for each open challenge at the Grand Challenges website (gcgh.grandchallenges.org).

IX. Inquiries

Please direct all questions about this initiative, selection criteria or application instructions by e-mail to the following address: grandchallenges@gatesfoundation.org