

Centers for Disease Control

National Center for Emerging and Zoonotic Infectious Diseases

CDC National Infection Control Strengthening . .
CDC-RFA-CK19-1905
Application Due Date: 08/05/2019

CDC National Infection Control Strengthening . .
CDC-RFA-CK19-1905
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Part I. Overview Information

Applicants must go to the synopsis page of this announcement at www.grants.gov and click on the "Send Me Change Notifications Emails" link to ensure they receive notifications of any changes to CDC-RFA-CK19-1905. Applicants also must provide an e-mail address to www.grants.gov to receive notifications of changes.

A. Federal Agency Name:

Centers for Disease Control and Prevention (CDC) / Agency for Toxic Substances and Disease Registry (ATSDR)

B. Notice of Funding Opportunity (NOFO) Title:

CDC National Infection Control Strengthening . .

C. Announcement Type: New - Type 1

This announcement is only for non-research activities supported by CDC. If research is proposed, the application will not be considered. For this purpose, research is defined at https://www.gpo.gov/fdsys/pkg/CFR-2007-title42-vol1/pdf/CFR-2007-title42-vol1-sec52-2.pdf. Guidance on how CDC interprets the definition of research in the context of public health can be found at https://www.hhs.gov/ohrp/regulations-and-policy/regulations/45-cfr-46/index.html (See section 45 CFR 46.102(d)).

U38 – Cooperative Agreements to develop or improve facets of public health information in cooperation with eligible applicants National Infection Control Strengthening

D. Agency Notice of Funding Opportunity Number:

CDC-RFA-CK19-1905

E. Assistance Listings (CFDA) Number:

93.825

F. Dates:

1. Due Date for Letter of Intent (LOI):	**N/A**
2. Due Date for Applications:	**08/05/2019**, 11:59 p.m. U.S. Eastern Standard Time, at www.grants.gov.

3. Date for Informational Conference Call:

G. Executive Summary:

1. Summary Paragraph:

The National Ebola Training and Education Center (NETEC) that was established in 2016 has provided regional capabilities to care for patients with highly infectious hemorrhagic fever virus infections. With a track record of each of the three hospitals having safely delivered that care, the NETEC members' facilities represent a clinical resource with unique experience and staffing that can now be used to extend that capacity to additional aspects of safe healthcare. By tailoring lessons learned to support smaller, less resourced community facilities, systematizing strategies for efficient, cost-effective organizational and structural adjustments to facilitate infection control, and identifying optimal processes to make clinical procedures safer, and improve PPE use and design, the original NETEC investment can yield benefits to a much larger array of facilities and improve the readiness of the US healthcare system to address

numerous epidemic threats. Throughout the three-year period of performance, each of the three facilities will work in collaboration with CDC experts in one of the following areas: in improving infection control at small and rural healthcare facilities, evaluating failure modes and human factors associated with IPC, and refining existing facilities and strategies into safe isolation units for high-level containment situations.

a. Eligible Applicants: Limited
b. NOFO Type: Cooperative Agreement
c. Approximate Number of Awards: 3

d. Total Period of Performance Funding: $3,100,000
Throughout the period of performance, CDC's commitment to continuation of awards will be conditional on the availability of funds, evidence of satisfactory progress by the recipient (as documented in required reports), and the determination that continued funding is in the best interest of the Federal government.

e. Average One Year Award Amount: $1,033,333

f. Total Period of Performance Length: 3
g. Estimated Award Date: 09/30/2019
h. Cost Sharing and / or Matching Requirements: N
Cost sharing/matching not required for this program.

Part II. Full Text

A. Funding Opportunity Description

Part II. Full Text

1. Background

a. Overview

The NETEC hospitals: Emory University, the University of Nebraska Medical Center, and the New York Health and Hospitals Corporation, Bellevue Hospital Center, to be funded through CDC, will increase the competency of health care and public health workers and the capability of health care facilities to deliver safe, efficient, and effective Ebola patient care through the nationwide, regional network for Ebola and other infectious diseases. Comprised of staff from hospitals that have successfully evaluated and treated Ebola patients in the U.S., and in collaboration with staff from CDC, the NETEC hospitals will offer expertise, education, training, technical assistance, peer review assessments, recognition reporting, and, if feasible, certification to regional Ebola and other special pathogen treatment centers, state- and jurisdiction-based Ebola treatment centers, and assessment hospitals.

This funding opportunity will support a consortium agreement, under which each recipient collaborates with one or more other organizations in carrying out the cooperative agreement-supported activities of the NETEC hospitals. The recipients, as the direct and primary recipients

of cooperative agreement funds, are accountable to CDC for the performance of the project, the appropriate expenditure of cooperative agreement funds by all parties, applicable reporting requirements, and all other obligations of the recipient.

b. Statutory Authorities

PH Service 301(a), 307, 317 as amended [42 U.S.C. 214, 242I, & 247b]

c. Healthy People 2030

Preparedness https://www.healthypeople.gov/2020/topics-objectives/topic/preparedness

Healthcare Associated Infections https://www.healthypeople.gov/2020/topics-objectives/topic/healthcare-associated-infections

Health Communication and Health Information Technology https://www.healthypeople.gov/2020/topics-objectives/topic/health-communication-and-health-information-technology

d. Other National Public Health Priorities and Strategies

National Action Plan to Prevent Healthcare Associated Infections https://health.gov/hcq/prevent-hai-action-plan.asp

Global Health Security Agenda https://www.hhs.gov/about/agencies/oga/global-health-security/agenda/index.html

e. Relevant Work

Since the 1960s, CDC has been engaged in infection control and healthcare safety. This work has led to improved technical innovation and guidelines, making US healthcare the safest in the world. Information on relevant work can be found here:

- https://www.cdc.gov/infectioncontrol/index.html
- https://www.cdc.gov/infectioncontrol/guidelines/index.html
- https://www.cdc.gov/hicpac/

2. CDC Project Description

a. Approach

Bold indicates period of performance outcome.

Strategies and Activities	Short-term Outcomes	Intermediate Outcomes	Long-Term Outcomes
Strategy A: Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities.	· **Increased knowledge of the gaps and opportunities to optimize**	· **Increased ability of small and rural healthcare facilities to**	· Improved IPC capabilities and training in small and rural healthcare facilities

	IPC in small and rural healthcare facilities	**identify materials developed to address gaps** · Improved access to real-time IPC consultation services for small and rural healthcare facilities	
Strategy B: Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including personal protective equipment (PPE) use, environmental cleaning, and use of devices and equipment	· **Increased understanding of the failure modes and human factors associated with IPC**	· **Enabled facilities and HCPs to assess risks and measure gaps in their IPC activities.** · **Improved assessment of HCP competency in regards to IPC best practices**	· Improved IPC best practices and training amongst HCP to reduce HAIs and patient harm · Improved understanding of failure of PPE that will translate into better designs and training.
Strategy C: Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations.	· **Improved understanding of:** o **Structural capabilities and barriers encountered in implementing IPC for high-level containment situations** o **Barriers that facilities might have for identifying travel or other potential**	· **Facilities increased ability to identify resources to:** o **Establish or modify existing environments into safe isolation units for high-level containment situations** · **Triage and isolate patients who may need**	· **Increased capacity for facilities to implement guidance that is scalable and generalizable to utilize existing infrastructure to meet the demands of a high-level containment situation.** · **Improved capacity and training of facilities to Identify, Isolate and Inform public health officials of a potential patient who may require high-level containment**

	exposures for special pathogens.	**high-level containment and, inform public health officials**	

i. Purpose

This CDC cooperative agreement will increase the competency of health care and public health workers and the capability of health care facilities to deliver safe, efficient, and effective Ebola patient care through the nationwide, regional network for Ebola and other infectious diseases. NETEC will offer expertise, education, training, technical assistance, peer review assessments, recognition reporting, and, if feasible, certification to regional Ebola and other special pathogen treatment centers, state- and jurisdiction-based Ebola treatment centers, and assessment hospitals.

ii. Outcomes

Strategy A: Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities.

- **Increase knowledge of the gaps and opportunities to optimize IPC in small and rural healthcare facilities.**
- Increased ability of small and rural healthcare facilities to identify materials developed to address gaps.
    - Strategy B: Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including PPE use, environmental cleaning, and use of devices and equipment

- **Increased understanding of the failure modes and human factors associated with IPC**

- Enable facilities and HCPs to assess risks and measure gaps in their IPC activities
- Improved assessment of HCP competency in regards to IPC best practices
    - Strategy C: Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations

- **Improved understanding of:**
- **Structural capabilities and barriers encountered in implementing IPC for high-level containment situations**
- **Barriers that facilities might have for identifying travel or other potential**

exposures for special pathogens.

- Facilities increased ability to identify resources to:
- Establish or modify existing environments into safe isolation units for high-level containment situations
-
    - Triage and isolate patients who may need high-level containment and, inform public health officials

- Increased capacity and training for facilities to implement guidance that is scalable and generalizable to utilize existing infrastructure to meet the demands of a high-level containment situation.

Improved capacity of facilities to Identify, Isolate and Inform public health officials of a potential patient who may require high-level containment

iii. Strategies and Activities

Each applicant will apply and be funded for one of the following strategies:

Strategy A: Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities

Activities:

i. Assess IPC needs of small and rural healthcare facilities
    a. Identify specific setting that require tailored tools and resources
ii. Summarize opportunities for optimized IPC in small and rural healthcare facilities
    a. Cross-walk existing large hospital IPC resources with small and rural healthcare facility needs summary
iii. Develop a suite of tailored resources
    a. Develop templates addressing identified gaps
    b. Field test and validate developed materials including input from small and rural facility users
    c. Make available for free online, and mobile-friendly as appropriate
iv. Devise and pilot a real-time IPC consultation service for small and rural healthcare facilities
    a. Research and identify platforms that would be appropriate for remote IPC consultation
    b. Pilot identified platforms with several small and rural healthcare facilities
    c. Provide a guide on how to implement real-time IPC consultation
v. Provide training to implement all tools developed

Strategy B: Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including personal protective equipment (PPE) use, environmental cleaning, and use of devices and equipment

Activities:

i. Utilize augmented reality to observe devices and equipment as well as behaviors and practices in a simulated clinical setting.
    a. Scale simulations to include additional patient care activities, treatment and diagnostic activities across the range of healthcare delivery (e.g., crowding of the room with equipment and additional people, acuity of care, and simulated distractions).
    b. Provide a technical report that summarizes the findings and recommendations of failure modes and human factors associated with PPE design and training.
ii. Develop a methodology to measure competency of healthcare personnel during IPC activities
    a. Develop an analytical approach to identify failure modes and measure competency
    b. Describe failure modes of both individual devices and behaviors and practices
    c. Develop and pilot test materials to address areas of need and/or gaps that are user friendly
    d. Finalize materials to address areas of need and/or gaps and ensure they are available for free online.
iii. Optimize healthcare personnel's (HCP) ability to asses risks and identify correct procedures for IPC
    a. Assess and measure gaps in IPC behaviors during these simulations
    b. Implement a knowledge, attitudes, and perception assessment (or focus group) to determine areas of need.
    c. Summarize observations and provide recommendations for best practices on observing, training, and measuring IPC competency of healthcare personnel
iv. Provide updated/improved IPC training based on findings

Strategy C: Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations.

Activities:

i. Establish processes that need to be implemented for high-level containment situations.
    a. Identify necessary structural capabilities and common barriers encountered in implementing IPC with existing infrastructure.
    b. Develop guidance that is scalable for healthcare facilities to utilize existing infrastructure to meet the demands of a high-level containment situation.
ii. Develop tools for cost estimates to make infrastructure modifications.
    a. Develop interactive tools (e.g., cost and time estimators) to facilitate planning and implementation
iii. Have a process to identify, then to safely isolate patients appropriate for high-level containment at initial triage in an appropriate space, and a process to immediately inform public health officials
    a. Develop and pilot approaches and templates to institute the identify, isolate, and inform framework
    b. Develop an implementation toolkit for effectively implementing the identify,

isolate, and inform framework, including in frontline and assessment facilities

iv. Make all materials available for free online and user friendly
v. Provide training to implement all tools developed

1. Collaborations

a. With other CDC programs and CDC-funded organizations:

The limited source justification approach to engage the NETEC consortium was selected specifically because of the unique opportunity to collaborate and engage among consortium members due to the unique structure of the consortium that enables frequent and deep collaboration across member entities without having to establish new relationships. The consortium can collaborate within its three members and also externally with CDC-funded partners such as state and local health departments and other national non-profit health associations, and these collaborations can be elected by the recipients as the context and CDC partners may deem appropriate over the life of the project.

b. With organizations not funded by CDC:

2. Target Populations

The target population is healthcare personnel in the nation's healthcare facilities that work in low resource settings (in particular small and rural healthcare facilities) and lack the structure of a proper IPC program, preventing transmission of communicable diseases in healthcare settings. The ultimate goal of this project is to improve patient safety and reduce healthcare-associated infections (HAIs) for all patients who seek medical care.

a. Health Disparities

The target population is healthcare personnel in the nation's healthcare facilities that work in low resource settings (in particular small and rural healthcare facilities) and lack the structure of a proper Infection Prevention and Control (IPC) program, preventing transmission of communicable diseases in healthcare settings. These facilities face challenges in IPC that are complicated by frequent staff turnover, vacancies, isolated/hardship locations, lack of training and resources, and leadership support. IPC staff are usually not able to focus exclusively on IPC and are assigned many other roles and responsibilities. In addition, there is no centralized or standardized training for IPC within these facilities. The lack of IPC in some of the nations healthcare facilities puts the patients and healthcare personnel at risk of infection. The Cooperative Agreement will reduce these health disparities and improve the following:

* IPC capabilities in small and rural healthcare facilities.

* IPC best practices amongst HCP to reduce HAIs and patient harm.

* Capacity for facilities to implement guidance that is scalable to utilize existing infrastructure to meet the demands of a high level containment situation.

* Capacity of facilities to identify, isolate and inform public health officials of a potential patient who may require high-level containment.

The outcomes achieved by the recipients of this cooperative agreement will reduce HAIs and improve patient care in small and rural healthcare facilities which in turn will improve health outcomes for populations served by these facilities (e.g. rural and tribal populations).

iv. Funding Strategy

Recipient A Funding for Budget Period: $300,000.00

Recipient B Funding for Budget Period: $366,666.66

Recipient C Funding for Budget Period: $366,666.66

Ceiling: $4,100,000.00

Floor: $1.00

b. Evaluation and Performance Measurement

i. CDC Evaluation and Performance Measurement Strategy

Recipients are expected to report the performance measures, and at the time of continuation applications when the emphasis will be on the narrative reporting. Recipients will also be expected to share progress of implementation of work plans (including but not limited to hiring of personnel or execution of contracts) as well as status of spending during regularly scheduled (i.e., at least quarterly) updates to CDC program personnel.

Strategy A - Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities

- Describes a project management approach for tracking progress on activities and proposed evaluation and performance measures.
- Provide results of small and rural healthcare facilities assessed for IPC needs.
- Provide results of a follow up assessment of small and rural hospitals after the implementation of tools developed by the recipient.
- Provide a summary of the piloted of a real-time IPC consultation service for small and rural healthcare facilities.
- Provide number of trainings to implement all tools developed.
- Provide the status of all materials available for free online and user friendly

Strategy B - Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including personal protective equipment (PPE) use, environmental cleaning, and use of devices and equipment

- Describes a project management approach for tracking progress on activities and proposed evaluation and performance measures.
- Provide a summary of the failures observed using augmented reality.
- Report on developed methodology to measure competency of healthcare personnel during IPC activities.
- Provide an assessment of improved healthcare personnel’s (HCP) ability to asses risks and identify correct procedures for IPC.

- Provide updated/improved IPC training-based on findings.
- Provide the status of all materials available for free online and user friendly

Strategy C - Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations:

- Describes a project management approach for tracking progress on activities and proposed evaluation and performance measures.
- Provide a detailed report on established processes to be implemented for high-level containment situations.
- Provide the number of tools developed for cost estimates to make infrastructure modifications.
- Provide a summary to identify, then to safely isolate patients appropriate for high-level containment at initial triage in an appropriate space, and a process to immediately inform public health officials
- Provide number of trainings to implement all tools developed

- Provide the status of all materials available for free online and user friendly

ii. Applicant Evaluation and Performance Measurement Plan
Applicants must provide an evaluation and performance measurement plan that demonstrates how the recipient will fulfill the requirements described in the CDC Evaluation and Performance Measurement and Project Description sections of this NOFO. At a minimum, the plan must describe:

- How applicant will collect the performance measures, respond to the evaluation questions, and use evaluation findings for continuous program quality improvement.
- How key program partners will participate in the evaluation and performance measurement planning processes.
- Available data sources, feasibility of collecting appropriate evaluation and performance data, and other relevant data information (e.g., performance measures proposed by the applicant)
- Plans for updating the Data Management Plan (DMP), if applicable, for accuracy throughout the lifecycle of the project. The DMP should provide a description of the data that will be produced using these NOFO funds; access to data; data standards ensuring released data have documentation describing methods of collection, what the data represent, and data limitations; and archival and long-term data preservation plans. For more information about CDC's policy on the DMP, see https://www.cdc.gov/grants/additionalrequirements/ar-25.html.

Where the applicant chooses to, or is expected to, take on specific evaluation studies, they should be directed to:

- Describe the type of evaluations (i.e., process, outcome, or both).
- Describe key evaluation questions to be addressed by these evaluations.

- Describe other information (e.g., measures, data sources).

Recipients will be required to submit a more detailed Evaluation and Performance Measurement plan, including a DMP, if applicable, within the first 6 months of award, as described in the Reporting Section of this NOFO.

c. Organizational Capacity of Recipients to Implement the Approach

The applicants will address the consortium member's current capacity to successfully implement the proposed project and associated activities, including describing the staff and other infrastructure already in place on which to build and meet period of performance outcomes.

Successful applicants will have the capacity to:

i. Conduct effective program planning, evaluation, performance monitoring, financial reporting, budget management and administration, and personnel management.
ii. Operate a financial management system that will enable:
    a. Proper funds management and segregation of funds by program as required by 45 CFR 75.302;
    b. Preparation of reports as required by general and program-specific terms and conditions;
    c. Tracing of funds to a level of expenditure adequate to establish compliance with federal statutes, regulations, and terms/conditions of the federal award
iii. Implement activities, evaluation plans, and staffing plans using a project management structure sufficient to clearly define staff roles and achieve project outcomes.
iv. Manage required procurement efforts.
v. Write and award contracts in accordance with applicable grants regulations.

d. Work Plan

Applicants must clearly identify the outcomes they expect to achieve by the end of the period of performance and provide a clear and concise description of the strategies and activities they used to achieve the project's outcome.

Applicant will briefly introduce the activity (ies) being proposed and describe what the expected output (e.g. milestones) will be over the first 12 months of the project and a higher level description for each subsequent year.

Applicant will define the expected outcomes that align with resolving the problem of closing the gaps. The outcomes should define what changes and improvements will occur in healthcare facilities and public health departments. Outcomes should be well defined, specific, measureable, and realistically achievable and contribute to closing the gaps identified in the narrative. Ideally, outcomes should link to planned activities, quantify the targeted change, and include an estimated timeline for achieving the change. The applicant can include as many outcomes as needed.

Applicant will list the intermediate activities the consortium will undertake, including tasks and

estimated start and end dates, which will lead to the associated outcomes and contribute to resolving the identified issue or problem. The applicant can include as many planned activities as needed.

Applicant will list the proposed outputs that will be produced as a result of the planned activities, such as the development of metrics to evaluate health care facilities lesson learned. The applicant can include as many planned outputs as needed

e. CDC Monitoring and Accountability Approach
Monitoring activities include routine and ongoing communication between CDC and recipients, site visits, and recipient reporting (including work plans, performance, and financial reporting). Consistent with applicable grants regulations and policies, CDC expects the following to be included in post-award monitoring for grants and cooperative agreements:

- Tracking recipient progress in achieving the desired outcomes.
- Ensuring the adequacy of recipient systems that underlie and generate data reports.
- Creating an environment that fosters integrity in program performance and results.

Monitoring may also include the following activities deemed necessary to monitor the award:

- Ensuring that work plans are feasible based on the budget and consistent with the intent of the award.
- Ensuring that recipients are performing at a sufficient level to achieve outcomes within stated timeframes.
- Working with recipients on adjusting the work plan based on achievement of outcomes, evaluation results and changing budgets.
- Monitoring performance measures (both programmatic and financial) to assure satisfactory performance levels.

Monitoring and reporting activities that assist grants management staff (e.g., grants management officers and specialists, and project officers) in the identification, notification, and management of high-risk recipients.

f. CDC Program Support to Recipients (THIS SECTION APPLIES ONLY TO COOPERATIVE AGREEMENTS)

- Technical support
- SME support
- Technical document review

B. Award Information

1. Funding Instrument Type:	Cooperative Agreement CDC's substantial involvement in this

program appears in the CDC Program Support to Recipients Section.

2. Award Mechanism: U38

U38 – Cooperative Agreements to develop or improve facets of public health information in cooperation with eligile applicants: CDC National Infection Control Strengthening

3. Fiscal Year: 2019

4. Approximate Total Fiscal Year Funding: $3,100,000

5. Approximate Period of Performance Funding: $3,100,000

This amount is subject to the availability of funds.

Throughout the period of performance, CDC's commitment to continuation of awards will be conditional on the availability of funds, evidence of satisfactory progress by the recipient (as documented in required reports), and the determination that continued funding is in the best interest of the Federal government.

Estimated Total Funding: $3,100,000

6. Approximate Period of Performance Length: 3 year(s)

7. Expected Number of Awards: 3

8. Approximate Average Award: $1,033,333 Per Project Period

9. Award Ceiling: $4,100,000 Per Project Period

This amount is subject to the availability of funds.

10. Award Floor: $1 Per Project Period

11. Estimated Award Date: 09/30/2019

12. Budget Period Length: 36 month(s)

Throughout the project period, CDC will continue the award based on the availability of funds, the evidence of satisfactory progress by the recipient (as documented in required reports), and the determination that continued funding is in the best interest of the federal government. The total number of years for which federal support has been approved (project period) will be shown in the "Notice of Award." This information does not constitute a commitment by the federal government to fund the entire period. The total period of performance comprises the initial competitive segment and any subsequent non-competitive continuation award(s).

13. Direct Assistance

Direct Assistance (DA) is available through this NOFO.

C. Eligibility Information

1. Eligible Applicants

Eligibility Category:	Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education Private institutions of higher education Others (see text field entitled "Additional Information on Eligibility" for clarification)
Additional Eligibility Category:	
Government Organizations:	
	State controlled institutions of higher education

2. Additional Information on Eligibility

In addition to noted above categories, state controlled institutions of higher education may also apply.

Eligible applicants are limited exclusively to the three member institutions of the National Ebola Training and Education Center (NETEC), a consortium of three healthcare institutions in the US that have successfully treated patients with Ebola virus disease: (1) Emory University, (2) the University of Nebraska Medical Center/Nebraska Medicine, and (3) New York City Health and Hospitals/Bellevue.

3. Justification for Less than Maximum Competition

The NETEC consortium members leverage their unique expertise, resources, and experiences to assess and assist healthcare facility readiness, educate and train providers, provide real-time technical assistance, and build a research infrastructure in the US. Combined with strong existing and new partnerships with federal agencies, these NETEC members ultimately strengthen our nation's health care and public health systems for the next emerging infectious disease threat.

4. Cost Sharing or Matching

Cost Sharing / Matching Requirement: No

Cost sharing/matching not required for this program.

5. Maintenance of Effort

Maintenance of effort is not required for this program.

D. Application and Submission Information

1. Required Registrations

An organization must be registered at the three following locations before it can submit an application for funding at www.grants.gov.

a. Data Universal Numbering System:

All applicant organizations must obtain a Data Universal Numbering System (DUNS) number. A DUNS number is a unique nine-digit identification number provided by Dun & Bradstreet (D&B). It will be used as the Universal Identifier when applying for federal awards or cooperative agreements.

The applicant organization may request a DUNS number by telephone at 1-866-705-5711 (toll free) or internet at http:// fedgov.dnb. com/ webform/ displayHomePage.do. The DUNS number will be provided at no charge.

If funds are awarded to an applicant organization that includes sub-recipients, those sub-recipients must provide their DUNS numbers before accepting any funds.

b. System for Award Management (SAM):

The SAM is the primary registrant database for the federal government and the repository into which an entity must submit information required to conduct business as a recipient. All applicant organizations must register with SAM, and will be assigned a SAM number. All information relevant to the SAM number must be current at all times during which the applicant has an application under consideration for funding by CDC. If an award is made, the SAM information must be maintained until a final financial report is submitted or the final payment is received, whichever is later. The SAM registration process can require 10 or more business days, and registration must be renewed annually. Additional information about registration procedures may be found at https://www.sam.gov/SAM/.

c. Grants.gov:

The first step in submitting an application online is registering your organization at www.grants.gov, the official HHS E-grant Web site. Registration information is located at the "Applicant Registration" option at www.grants.gov.

All applicant organizations must register at www.grants.gov. The one-time registration process usually takes not more than five days to complete. Applicants should start the registration process as early as possible.

Step	System	Requirements	Duration	Follow Up
1	Data Universal Number System (DUNS)	1. Click on http:// fedgov.dnb.com/ webform 2. Select Begin DUNS search/request process 3. Select your country or territory and follow the instructions to obtain your DUNS 9-digit #	1-2 Business Days	To confirm that you have been issued a new DUNS number check online at (http:// fedgov.dnb.com/ webform) or call

		4. Request appropriate staff member(s) to obtain DUNS number, verify & update information under DUNS number		1-866-705-5711
2	System for Award Management (SAM) formerly Central Contractor Registration (CCR)	1. Retrieve organizations DUNS number 2. Go to https://www.sam.gov/SAM/ and designate an E-Biz POC (note CCR username will not work in SAM and you will need to have an active SAM account before you can register on grants.gov)	3-5 Business Days but up to 2 weeks and must be renewed once a year	For SAM Customer Service Contact https://fsd.gov/fsd-gov/home.do Calls: 866-606-8220
3	Grants.gov	1. Set up an individual account in Grants.gov using organization new DUNS number to become an authorized organization representative (AOR) 2. Once the account is set up the E-BIZ POC will be notified via email 3. Log into grants.gov using the password the E-BIZ POC received and create new password 4. This authorizes the AOR to submit applications on behalf of the organization	Same day but can take 8 weeks to be fully registered and approved in the system (note, applicants MUST obtain a DUNS number and SAM account before applying on grants.gov)	Register early! Log into grants.gov and check AOR status until it shows you have been approved

2. Request Application Package

Applicants may access the application package at www.grants.gov.

3. Application Package

Applicants must download the SF-424, Application for Federal Assistance, package associated with this notice of funding opportunity at www.grants.gov.

4. Submission Dates and Times

If the application is not submitted by the deadline published in the NOFO, it will not be processed. Office of Grants Services (OGS) personnel will notify the applicant that their application did not meet the deadline. The applicant must receive pre-approval to submit a paper application (see Other Submission Requirements section for additional details). If the applicant is authorized to submit a paper application, it must be received by the deadline provided by OGS.

a. Letter of Intent Deadline (must be emailed or postmarked by)

Due Date for Letter of Intent: **N/A**

b. Application Deadline

Due Date for Applications: **08/05/2019** , 11:59 p.m. U.S. Eastern Standard Time, at www.grants.gov. If Grants.gov is inoperable and cannot receive applications, and circumstances preclude advance notification of an extension, then applications must be submitted by the first business day on which grants.gov operations resume.

Date for Information Conference Call

5. CDC Assurances and Certifications

All applicants are required to sign and submit "Assurances and Certifications" documents indicated at http://wwwn.cdc.gov/ grantassurances/ (S(mj444mxct51lnrv1hljjjmaa)) /Homepage.aspx.
Applicants may follow either of the following processes:

- Complete the applicable assurances and certifications with each application submission, name the file "Assurances and Certifications" and upload it as a PDF file with at www.grants.gov
- Complete the applicable assurances and certifications and submit them directly to CDC on an annual basis at http://wwwn.cdc.gov/ grantassurances/ (S(mj444mxct51lnrv1hljjjmaa))/ Homepage.aspx

Assurances and certifications submitted directly to CDC will be kept on file for one year and will apply to all applications submitted to CDC by the applicant within one year of the submission date.

Risk Assessment Questionnaire Requirement

CDC is required to conduct pre-award risk assessments to determine the risk an applicant poses to meeting federal programmatic and administrative requirements by taking into account issues such as financial instability, insufficient management systems, non-compliance with award conditions, the charging of unallowable costs, and inexperience. The risk assessment will include an evaluation of the applicant's CDC Risk Questionnaire, located at https://www.cdc.gov/grants/documents/PPMR-G-CDC-Risk-Questionnaire.pdf, as well as a review of the applicant's history in all available systems; including OMB-designated repositories of government-wide eligibility and financial integrity systems (see 45 CFR

75.205(a)), and other sources of historical information. These systems include, but are not limited to: FAPIIS (https://www.fapiis.gov/), including past performance on federal contracts as per Duncan Hunter National Defense Authorization Act of 2009; Do Not Pay list; and System for Award Management (SAM) exclusions.

CDC requires all applicants to complete the Risk Questionnaire, OMB Control Number 0920-1132 annually. This questionnaire, which is located at https://www.cdc.gov/grants/documents/PPMR-G-CDC-Risk-Questionnaire.pdf, along with supporting documentation must be submitted with your application by the closing date of the Notice of Funding Opportunity Announcement. If your organization has completed CDC's Risk Questionnaire within the past 12 months of the closing date of this NOFO, then you must submit a copy of that questionnaire, or submit a letter signed by the authorized organization representative to include the original submission date, organization's EIN and DUNS. When uploading supporting documentation for the Risk Questionnaire into this application package, clearly label the documents for easy identification of the type of documentation. For example, a copy of Procurement policy submitted in response to the questionnaire may be labeled using the following format: Risk Questionnaire Supporting Documents _ Procurement Policy.

Duplication of Efforts

Applicants are responsible for reporting if this application will result in programmatic, budgetary, or commitment overlap with another application or award (i.e. grant, cooperative agreement, or contract) submitted to another funding source in the same fiscal year. Programmatic overlap occurs when (1) substantially the same project is proposed in more than one application or is submitted to two or more funding sources for review and funding consideration or (2) a specific objective and the project design for accomplishing the objective are the same or closely related in two or more applications or awards, regardless of the funding source. Budgetary overlap occurs when duplicate or equivalent budgetary items (e.g., equipment, salaries) are requested in an application but already are provided by another source. Commitment overlap occurs when an individual's time commitment exceeds 100 percent, whether or not salary support is requested in the application. Overlap, whether programmatic, budgetary, or commitment of an individual's effort greater than 100 percent, is not permitted. Any overlap will be resolved by the CDC with the applicant and the PD/PI prior to award. Report Submission: The applicant must upload the report in Grants.gov under "Other Attachment Forms." The document should be labeled: "Report on Programmatic, Budgetary, and Commitment Overlap."

6. Content and Form of Application Submission

Applicants are required to include all of the following documents with their application package at www.grants.gov.

7. Letter of Intent

N/A

8. Table of Contents

(There is no page limit. The table of contents is not included in the project narrative page limit.): The applicant must provide, as a separate attachment, the “Table of Contents” for the entire submission package.
Provide a detailed table of contents for the entire submission package that includes all of the documents in the application and headings in the "Project Narrative" section. Name the file "Table of Contents" and upload it as a PDF file under "Other Attachment Forms" at www.grants.gov.

9. Project Abstract Summary

(Maximum 1 page)
A project abstract is included on the mandatory documents list and must be submitted at www.grants.gov. The project abstract must be a self-contained, brief summary of the proposed project including the purpose and outcomes. This summary must not include any proprietary or confidential information. Applicants must enter the summary in the "Project Abstract Summary" text box at www.grants.gov.

10. Project Narrative

(Unless specified in the "H. Other Information" section, maximum of 20 pages, single spaced, 12 point font, 1-inch margins, number all pages. This includes the work plan. Content beyond the specified page number will not be reviewed.)
Applicants must submit a Project Narrative with the application forms. Applicants must name this file “Project Narrative” and upload it at www.grants.gov. The Project Narrative must include **all** of the following headings (including subheadings): Background, Approach, Applicant Evaluation and Performance Measurement Plan, Organizational Capacity of Applicants to Implement the Approach, and Work Plan. The Project Narrative must be succinct, self-explanatory, and in the order outlined in this section. It must address outcomes and activities to be conducted over the entire period of performance as identified in the CDC Project Description section. Applicants should use the federal plain language guidelines and Clear Communication Index to respond to this Notice of Funding Opportunity. Note that recipients should also use these tools when creating public communication materials supported by this NOFO. Failure to follow the guidance and format may negatively impact scoring of the application.

a. Background

Applicants must provide a description of relevant background information that includes the context of the problem (See CDC Background).

b. Approach

i. Purpose

Applicants must describe in 2-3 sentences specifically how their application will address the public health problem as described in the CDC Background section.

ii. Outcomes
Applicants must clearly identify the outcomes they expect to achieve by the end of the project period, as identified in the logic model in the Approach section of the CDC Project Description. Outcomes are the results that the program intends to achieve and usually indicate the intended direction of change (e.g., increase, decrease).

iii. Strategies and Activities
Applicants must provide a clear and concise description of the strategies and activities they will use to achieve the period of performance outcomes. Applicants must select existing evidence-based strategies that meet their needs, or describe in the Applicant Evaluation and Performance Measurement Plan how these strategies will be evaluated over the course of the project period. See the Strategies and Activities section of the CDC Project Description.

1. Collaborations
Applicants must describe how they will collaborate with programs and organizations either internal or external to CDC. Applicants must address the Collaboration requirements as described in the CDC Project Description.

2. Target Populations and Health Disparities
Applicants must describe the specific target population(s) in their jurisdiction and explain how such a target will achieve the goals of the award and/or alleviate health disparities. The applicants must also address how they will include specific populations that can benefit from the program that is described in the Approach section. Applicants must address the Target Populations and Health Disparities requirements as described in the CDC Project Description.

c. Applicant Evaluation and Performance Measurement Plan

Applicants must provide an evaluation and performance measurement plan that demonstrates how the recipient will fulfill the requirements described in the CDC Evaluation and Performance Measurement and Project Description sections of this NOFO. At a minimum, the plan must describe:

- How applicant will collect the performance measures, respond to the evaluation questions, and use evaluation findings for continuous program quality improvement. The Paperwork Reduction Act of 1995 (PRA): Applicants are advised that any activities involving information collections (e.g., surveys, questionnaires, applications, audits, data requests, reporting, recordkeeping and disclosure requirements) from 10 or more individuals or non-Federal entities, including State and local governmental agencies, and funded or sponsored by the Federal Government are subject to review and approval by the Office of Management and Budget. For further information about CDC's requirements under PRA see https://www.cdc.gov/od/science/integrity/reducePublicBurden/.
- How key program partners will participate in the evaluation and performance measurement planning processes.

- Available data sources, feasibility of collecting appropriate evaluation and performance data, data management plan (DMP), and other relevant data information (e.g., performance measures proposed by the applicant).

Where the applicant chooses to, or is expected to, take on specific evaluation studies, they should be directed to:

- Describe the type of evaluations (i.e., process, outcome, or both).
- Describe key evaluation questions to be addressed by these evaluations.
- Describe other information (e.g., measures, data sources).

Recipients will be required to submit a more detailed Evaluation and Performance Measurement plan (including the DMP elements) within the first 6 months of award, as described in the Reporting Section of this NOFO.

d. Organizational Capacity of Applicants to Implement the Approach

Applicants must address the organizational capacity requirements as described in the CDC Project Description.

11. Work Plan

(Included in the Project Narrative's page limit)
Applicants must prepare a work plan consistent with the CDC Project Description Work Plan section. The work plan integrates and delineates more specifically how the recipient plans to carry out achieving the period of performance outcomes, strategies and activities, evaluation and performance measurement.

12. Budget Narrative

Applicants must submit an itemized budget narrative. When developing the budget narrative, applicants must consider whether the proposed budget is reasonable and consistent with the purpose, outcomes, and program strategy outlined in the project narrative. The budget must include:

- Salaries and wages
- Fringe benefits
- Consultant costs
- Equipment
- Supplies
- Travel
- Other categories
- Contractual costs
- Total Direct costs

- Total Indirect costs

Indirect costs could include the cost of collecting, managing, sharing and preserving data. Indirect costs on grants awarded to foreign organizations and foreign public entities and performed fully outside of the territorial limits of the U.S. may be paid to support the costs of compliance with federal requirements at a fixed rate of eight percent of MTDC exclusive of tuition and related fees, direct expenditures for equipment, and subawards in excess of $25,000. Negotiated indirect costs may be paid to the American University, Beirut, and the World Health Organization.
If applicable and consistent with the cited statutory authority for this announcement, applicant entities may use funds for activities as they relate to the intent of this NOFO to meet national standards or seek health department accreditation through the Public Health Accreditation Board (see: http://www.phaboard.org). Applicant entities to whom this provision applies include state, local, territorial governments (including the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, the Commonwealth of the Northern Marianna Islands, American Samoa, Guam, the Federated States of Micronesia, the Republic of the Marshall Islands, and the Republic of Palau), or their bona fide agents, political subdivisions of states (in consultation with states), federally recognized or state-recognized American Indian or Alaska Native tribal governments, and American Indian or Alaska Native tribally designated organizations. Activities include those that enable a public health organization to deliver public health services such as activities that ensure a capable and qualified workforce, up-to-date information systems, and the capability to assess and respond to public health needs. Use of these funds must focus on achieving a minimum of one national standard that supports the intent of the NOFO. Proposed activities must be included in the budget narrative and must indicate which standards will be addressed.
Vital records data, including births and deaths, are used to inform public health program and policy decisions. If applicable and consistent with the cited statutory authority for this NOFO, applicant entities are encouraged to collaborate with and support their jurisdiction's vital records office (VRO) to improve vital records data timeliness, quality and access, and to advance public health goals. Recipients may, for example, use funds to support efforts to build VRO capacity through partnerships; provide technical and/or financial assistance to improve vital records timeliness, quality or access; or support vital records improvement efforts, as approved by CDC.
Applicants must name this file "Budget Narrative" and upload it as a PDF file at www.grants.gov. If requesting indirect costs in the budget, a copy of the indirect cost-rate agreement is required. If the indirect costs are requested, include a copy of the current negotiated federal indirect cost rate agreement or a cost allocation plan approval letter for those Recipients under such a plan. Applicants must name this file "Indirect Cost Rate" and upload it at www.grants.gov.

The detailed budget with supporting justification must be provided and be related to activities that are stated in the applicant's work plan. The applicant must not include the following budget related issues:

1. If indirect cost are requested, it will be necessary to include a copy of the organization's current negotiated Federal Indirect Cost Rate Agreement or a Cost Allocation plan for those applicants under such a plan.

2. Travel for program implementation should be justified and related to implementation activities

Budgets that include costs for equipment (e. g. training related equipment) must be detailed in the budget narrative and justification.

13. Funds Tracking

Proper fiscal oversight is critical to maintaining public trust in the stewardship of federal funds. Effective October 1, 2013, a new HHS policy on subaccounts requires the CDC to set up payment subaccounts within the Payment Management System (PMS) for all new grant awards. Funds awarded in support of approved activities and drawdown instructions will be identified on the Notice of Award in a newly established PMS subaccount (P subaccount). Recipients will be required to draw down funds from award-specific accounts in the PMS. Ultimately, the subaccounts will provide recipients and CDC a more detailed and precise understanding of financial transactions. The successful applicant will be required to track funds by P-accounts/sub accounts for each project/cooperative agreement awarded. Applicants are encouraged to demonstrate a record of fiscal responsibility and the ability to provide sufficient and effective oversight. Financial management systems must meet the requirements as described 2 CFR 200 which include, but are not limited to, the following:

- Records that identify adequately the source and application of funds for federally-funded activities.
- Effective control over, and accountability for, all funds, property, and other assets.
- Comparison of expenditures with budget amounts for each Federal award.
- Written procedures to implement payment requirements.
- Written procedures for determining cost allowability.
- Written procedures for financial reporting and monitoring.

14. Intergovernmental Review

Executive Order 12372 does not apply to this program.

15. Pilot Program for Enhancement of Employee Whistleblower Protections

Pilot Program for Enhancement of Employee Whistleblower Protections: All applicants will be subject to a term and condition that applies the terms of 48 Code of Federal Regulations (CFR) section 3.908 to the award and requires that recipients inform their employees in writing (in the predominant native language of the workforce) of employee whistleblower rights and protections under 41 U.S.C. 4712.

16. Copyright Interests Provisions

This provision is intended to ensure that the public has access to the results and accomplishments of public health activities funded by CDC. Pursuant to applicable grant regulations and CDC's Public Access Policy, Recipient agrees to submit into the National Institutes of Health (NIH) Manuscript Submission (NIHMS) system an electronic version of the

final, peer-reviewed manuscript of any such work developed under this award upon acceptance for publication, to be made publicly available no later than 12 months after the official date of publication. Also at the time of submission, Recipient and/or the Recipient's submitting author must specify the date the final manuscript will be publicly accessible through PubMed Central (PMC). Recipient and/or Recipient's submitting author must also post the manuscript through PMC within twelve (12) months of the publisher's official date of final publication; however the author is strongly encouraged to make the subject manuscript available as soon as possible. The recipient must obtain prior approval from the CDC for any exception to this provision.

The author's final, peer-reviewed manuscript is defined as the final version accepted for journal publication, and includes all modifications from the publishing peer review process, and all graphics and supplemental material associated with the article. Recipient and its submitting authors working under this award are responsible for ensuring that any publishing or copyright agreements concerning submitted articles reserve adequate right to fully comply with this provision and the license reserved by CDC. The manuscript will be hosted in both PMC and the CDC Stacks institutional repository system. In progress reports for this award, recipient must identify publications subject to the CDC Public Access Policy by using the applicable NIHMS identification number for up to three (3) months after the publication date and the PubMed Central identification number (PMCID) thereafter.

17. Funding Restrictions

Restrictions that must be considered while planning the programs and writing the budget are:

- Recipients may not use funds for research.
- Recipients may not use funds for clinical care except as allowed by law.
- Recipients may use funds only for reasonable program purposes, including personnel, travel, supplies, and services.
- Generally, recipients may not use funds to purchase furniture or equipment. Any such proposed spending must be clearly identified in the budget.
- Reimbursement of pre-award costs generally is not allowed, unless the CDC provides written approval to the recipient.
- Other than for normal and recognized executive-legislative relationships, no funds may be used for:
    - publicity or propaganda purposes, for the preparation, distribution, or use of any material designed to support or defeat the enactment of legislation before any legislative body
    - the salary or expenses of any grant or contract recipient, or agent acting for such recipient, related to any activity designed to influence the enactment of legislation, appropriations, regulation, administrative action, or Executive order proposed or pending before any legislative body
- See Additional Requirement (AR) 12 for detailed guidance on this prohibition and additional guidance on lobbying for CDC recipients.
- The direct and primary recipient in a cooperative agreement program must perform a substantial role in carrying out project outcomes and not merely serve as a conduit for an

award to another party or provider who is ineligible.

- In accordance with the United States Protecting Life in Global Health Assistance policy, all non-governmental organization (NGO) applicants acknowledge that foreign NGOs that receive funds provided through this award, either as a prime recipient or subrecipient, are strictly prohibited, regardless of the source of funds, from performing abortions as a method of family planning or engaging in any activity that promotes abortion as a method of family planning, or to provide financial support to any other foreign non-governmental organization that conducts such activities. See Additional Requirement (AR) 35 for applicability (https://www.cdc.gov/grants/additionalrequirements/ar-35.html).

In addition, the following activities are not fundable:

1. Recipients may not use funds for construction.
2. Recipients may not use funds to carry out program of distributing sterile needles or syringes for hypodermic injections of any illegal drug.
3. Recipients may not use funds to advocate or promote gun control.
4. Salaries may not exceed the salary rate of Executive Level II of $192,300.00 USD per year.
5. Recipients may not use funds for lobbying activities.
6. Recipients may not use funds for fund raising.
7. Recipients may not use funds for the cost of money even if part of the negotiated indirect cost rate agreement.
8. Recipients may not use funds for vehicles.
9. Recipients may not use funds for salaries for back filling of personnel.

Recipients may not use funds for antibiotics for treatment of secondary infections.

18. Data Management Plan

As identified in the Evaluation and Performance Measurement section, applications involving data collection must include a Data Management Plan (DMP) as part of their evaluation and performance measurement plan. The DMP is the applicant's assurance of the quality of the public health data through the data's lifecycle and plans to deposit data in a repository to preserve and to make the data accessible in a timely manner. See web link for additional information:
https://www.cdc.gov/grants/additionalrequirements/ar-25.html

19. Other Submission Requirements

a. Electronic Submission:

Applications must be submitted electronically by using the forms and instructions posted for this notice of funding opportunity at www.grants.gov. Applicants can complete the application package using Workspace, which allows forms to be filled out online or offline. All application

attachments must be submitted using a PDF file format. Instructions and training for using Workspace can be found at www.grants.gov under the "Workspace Overview" option.

b. Tracking Number: Applications submitted through www.grants.gov are time/date stamped electronically and assigned a tracking number. The applicant's Authorized Organization Representative (AOR) will be sent an e-mail notice of receipt when www.grants.gov receives the application. The tracking number documents that the application has been submitted and initiates the required electronic validation process before the application is made available to CDC.

c. Validation Process: Application submission is not concluded until the validation process is completed successfully. After the application package is submitted, the applicant will receive a "submission receipt" e-mail generated by www.grants.gov. A second e-mail message to applicants will then be generated by www.grants.gov that will either validate or reject the submitted application package. This validation process may take as long as two business days. Applicants are strongly encouraged to check the status of their application to ensure that submission of their package has been completed and no submission errors have occurred. Applicants also are strongly encouraged to allocate ample time for filing to guarantee that their application can be submitted and validated by the deadline published in the NOFO. Non-validated applications will not be accepted after the published application deadline date.

If you do not receive a "validation" e-mail within two business days of application submission, please contact www.grants.gov. For instructions on how to track your application, refer to the e-mail message generated at the time of application submission or the Grants.gov Online User Guide.
https:// www.grants.gov/help/html/help/index.htm? callingApp=custom#t=
Get_Started%2FGet_Started. htm

d. Technical Difficulties: If technical difficulties are encountered at www.grants.gov, applicants should contact Customer Service at www.grants.gov. The www.grants.gov Contact Center is available 24 hours a day, 7 days a week, except federal holidays. The Contact Center is available by phone at 1-800-518-4726 or by e-mail at support@grants.gov. Application submissions sent by e-mail or fax, or on CDs or thumb drives will not be accepted. Please note that www.grants.gov is managed by HHS.

e. Paper Submission: If technical difficulties are encountered at www.grants.gov, applicants should call the www.grants.gov Contact Center at 1-800-518-4726 or e-mail them at support@grants.gov for assistance. After consulting with the Contact Center, if the technical difficulties remain unresolved and electronic submission is not possible, applicants may e-mail CDC GMO/GMS, before the deadline, and request permission to submit a paper application. Such requests are handled on a case-by-case basis.
An applicant's request for permission to submit a paper application must:

1. Include the www.grants.gov case number assigned to the inquiry
2. Describe the difficulties that prevent electronic submission and the efforts taken with the www.grants.gov Contact Center to submit electronically; and

3. Be received via e-mail to the GMS/GMO listed below at least three calendar days before the application deadline. Paper applications submitted without prior approval will not be considered.

   If a paper application is authorized, OGS will advise the applicant of specific instructions for submitting the application (e.g., original and two hard copies of the application by U.S. mail or express delivery service).

E. Review and Selection Process

1. Review and Selection Process: Applications will be reviewed in three phases

a. Phase 1 Review

All applications will be initially reviewed for eligibility and completeness by CDC Office of Grants Services. Complete applications will be reviewed for responsiveness by the Grants Management Officials and Program Officials. Non-responsive applications will not advance to Phase II review. Applicants will be notified that their applications did not meet eligibility and/or published submission requirements.

b. Phase II Review

A review panel will evaluate complete, eligible applications in accordance with the criteria below.

i. Approach
ii. Evaluation and Performance Measurement
iii. Applicant's Organizational Capacity to Implement the Approach

Not more than thirty days after the Phase II review is completed, applicants will be notified electronically if their application does not meet eligibility or published submission requirements.

i. Approach	Maximum Points:0

Strategy A - Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities (Max 35 points):

· Presents a work plan that is aligned with the strategies/activities, outcomes, and performance measures as described in the logic model. (10 Points)

· Describes strategies and activities that are achievable and appropriate to realize outcomes of the project, specifically the short-term outcome of increased knowledge of the gaps and opportunities to optimize IPC in small and rural healthcare facilities. (10 Points)

· Describes approach to pilot-test real-time IPC consultation services. (10 Points)

· Shows that proposed use of funds and funding sources are efficient and consistent with the appropriate intent to implement the strategies and activities (5 points)

Strategy B - Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including personal protective equipment (PPE)

use, environmental cleaning, and use of devices and equipment (Max 35 points):

· Presents a work plan that is aligned with the strategies/activities, outcomes, and performance measures as described in the logic model. (10 Points)

· Describes an overall strategies and activities consistent with the CDC Project Description and logic model. (10 Points)

· Describes strategies and activities that are achievable, appropriate to achieve the outcomes of the project, and evidence-based (to the degree practicable). (10 Points)

· Describes the annual budget and development, implementation, maintenance, and operating costs of the augmented reality/simulated clinical setting. (5 Points)

Strategy C - Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations (Max 35 points):

· Presents a work plan that is aligned with the strategies/activities, outcomes, and performance measures as described in the logic model. (10 Points)

· Describes strong, innovative approaches for developing tools to assist facilities in improving existing current facility environments into safe isolation units. (10 Points)

· Describes strong, innovative approaches for facilities to improve their capacity to Identify, Isolate and inform as described in the logic model. (10 Points)

· Shows that the proposed use of funds is an efficient and effective way to implement the strategies and activities and attain the period of performance outcomes (5 Points)

ii. Evaluation and Performance Measurement Maximum Points:0

Strategy A - Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities (Max 25 points): · Describes clear monitoring and evaluation procedures that will be incorporated into planning and implementation (10 Points) · Proposes strong approaches to evaluating the success of the project (10 Points) · Describes a project management approach for tracking progress on activities and proposed outcomes (5 points) Strategy B - Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including personal protective equipment (PPE) use, environmental cleaning, and use of devices and equipment (Max 25 points): · Affirms the ability to collect data on the process and outcome performance measures specified by CDC in the project description and presented by the applicant in their approach (10 Points) · Describes how performance measurement and evaluation findings will be reported, and used to demonstrate the outcomes of the NOFO and for continuous program quality	Maximum Points

improvement (10 Points) · Describes clear monitoring and evaluation procedures and how evaluation and performance measurement will be incorporated into planning, implementation, and reporting of project activities (5 Points) Strategy C - Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations (Max 25 points): · Proposes strong approach to evaluating the success of the project (10 Points) · Describes a project management approach for tracking progress on activities and outcome (5 Points) · Describes how performance measurement and evaluation findings will be reported (10 Points)	
iii. Applicant's Organizational Capacity to Implement the Approach — Maximum Points:0	
Strategy A - Tailor Infection Prevention Control (IPC) needs for small and rural healthcare facilities (Max 40 points): · Demonstrates experience and capacity to implement the activities and achieve the project outcomes (e.g. support to small and rural healthcare facilities) (20 points) · Provides a staffing plan and project management structure that will be sufficient to achieve the project outcomes and which clearly defines staff roles. Provides an organizational chart with staff CVs/Resumes (10 Points) · Presents a budget that aligns with the proposed strategies and activities included in the work plan (10 Points) Strategy B - Evaluating failure modes and human factors associated with IPC in isolation rooms during simulated patient care activities, including personal protective equipment (PPE) use, environmental cleaning, and use of devices and equipment (Max 40 points): · Demonstrates relevant experience and capacity to implement the activities and achieve the project outcomes (e.g. human factors and augmented reality capabilities) (20 Points) · Provides a description of their internal capacity, systems capacity, availability of dedicated staff to identify approaches for evaluating failure modes and human factors associated with IPC using augmented reality. Provides an organizational chart with staff CVs/Resumes (10 Points) · Demonstrates that the proposed use of funding is an efficient and effective means to implement the project (10 Points) Strategy C - Identify processes and strategies to convert existing environments into safe isolation units for high-level containment situations (Max 40 points):	Maximum Points:

· Demonstrates relevant experience and capacity (management, project management, procurement, administrative, and technical) to implement the activities and achieve the project outcomes (10 Points) · Provides a description of their internal capacity, systems capacity, availability of dedicated staff to identify approaches for evaluating failure modes and human factors associated with IPC using augmented reality. Provides an organizational chart with staff CVs/Resumes (10 Points) · Shows that the proposed use of funds is an efficient and effective way to implement the strategies and activities and attain the period of performance outcomes (10 Points) · Demonstrates the experience and capacity to implement the approach and evaluation plan (10 Points)	

Budget

Budget: Evaluate whether the budget is reasonable and aligns with the proposed strategies and activities included in the work plan for each strategy.

c. Phase III Review

Review of risk posed by applicants.

Prior to making a Federal award, CDC is required by 31 U.S.C. 3321 and 41 U.S.C. 2313 to review information available through any OMB-designated repositories of government-wide eligibility qualification or financial integrity information as appropriate. See also suspension and debarment requirements at 2 CFR parts 180 and 376.

In accordance 41 U.S.C. 2313, CDC is required to review the non-public segment of the OMB-designated integrity and performance system accessible through SAM (currently the Federal Recipient Performance and Integrity Information System (FAPIIS)) prior to making a Federal award where the Federal share is expected to exceed the simplified acquisition threshold, defined in 41 U.S.C. 134, over the period of performance. At a minimum, the information in the system for a prior Federal award recipient must demonstrate a satisfactory record of executing programs or activities under Federal grants, cooperative agreements, or procurement awards; and integrity and business ethics. CDC may make a Federal award to a recipient who does not fully meet these standards, if it is determined that the information is not relevant to the current Federal award under consideration or there are specific conditions that can appropriately mitigate the effects of the non-Federal entity's risk in accordance with 45 CFR §75.207.

CDC’s framework for evaluating the risks posed by an applicant may incorporate results of the evaluation of the applicant's eligibility or the quality of its application. If it is determined that a Federal award will be made, special conditions that correspond to the degree of risk assessed may be applied to the Federal award. The evaluation criteria is described in this Notice of

Funding Opportunity.
In evaluating risks posed by applicants, CDC will use a risk-based approach and may consider any items such as the following:
(1) Financial stability;
(2) Quality of management systems and ability to meet the management standards prescribed in this part;
(3) History of performance. The applicant's record in managing Federal awards, if it is a prior recipient of Federal awards, including timeliness of compliance with applicable reporting requirements, conformance to the terms and conditions of previous Federal awards, and if applicable, the extent to which any previously awarded amounts will be expended prior to future awards;
(4) Reports and findings from audits performed under subpart F 45 CFR 75 or the reports and findings of any other available audits; and
(5) The applicant's ability to effectively implement statutory, regulatory, or other requirements imposed on non-Federal entities.
CDC must comply with the guidelines on government-wide suspension and debarment in 2 CFR part 180, and require non-Federal entities to comply with these provisions. These provisions restrict Federal awards, subawards and contracts with certain parties that are debarred, suspended or otherwise excluded from or ineligible for participation in Federal programs or activities.

2. Announcement and Anticipated Award Dates

09/02/2019

F. Award Administration Information

1. Award Notices

Recipients will receive an electronic copy of the Notice of Award (NOA) from CDC OGS. The NOA shall be the only binding, authorizing document between the recipient and CDC. The NOA will be signed by an authorized GMO and emailed to the Recipient Business Officer listed in application and the Program Director.

Any applicant awarded funds in response to this Notice of Funding Opportunity will be subject to the DUNS, SAM Registration, and Federal Funding Accountability And Transparency Act Of 2006 (FFATA) requirements.

Unsuccessful applicants will receive notification of these results by e-mail with delivery receipt or by U.S. mail.

The Notice of Award sets forth the amount of funds granted, the terms and conditions of the award, the effective date of the award, the budget period for which initial support will be given, the non-federal share to be provided (if applicable), and the total project period for which support is contemplated.

Each applicant will receive written notification of the outcome of the objective review process, including a summary of the expert committee's assessment of the application's strengths and weaknesses, and whether the application was selected for funding. Applicants who are selected for funding may be required to respond in a satisfactory manner to conditions placed on their application before funding can proceed. Letters of notification do not provide authorization to begin performance.

2. Administrative and National Policy Requirements

Recipients must comply with the administrative and public policy requirements outlined in 45 CFR Part 75 and the HHS Grants Policy Statement, as appropriate.
Brief descriptions of relevant provisions are available at http://www.cdc.gov/grants/additionalrequirements/index.html#ui-id-17.
The HHS Grants Policy Statement is available at http://www.hhs.gov/sites/default/files/grants/grants/policies-regulations/hhsgps107.pdf.

ARs applicable to Conference Awards:

- AR-20: Conference Support
- AR-27: Conference Disclaimer and Use of Logos

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Organization-specific ARs:

- AR-8: Public Health System Reporting Requirements
- AR-15: Proof of Non-profit Status
- AR-23: Compliance with 45 CFR Part 87

The full text of the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for HHS Awards, 45 CFR 75, can be found at: https://www.ecfr.gov/cgi-bin/text-idx?node=pt45.1.75

3. Reporting

Reporting provides continuous program monitoring and identifies successes and challenges that recipients encounter throughout the project period. Also, reporting is a requirement for recipients who want to apply for yearly continuation of funding. Reporting helps CDC and recipients because it:

- Helps target support to recipients;
- Provides CDC with periodic data to monitor recipient progress toward meeting the Notice of Funding Opportunity outcomes and overall performance;
- Allows CDC to track performance measures and evaluation findings for continuous

quality and program improvement throughout the period of performance and to determine applicability of evidence-based approaches to different populations, settings, and contexts; and
- Enables CDC to assess the overall effectiveness and influence of the NOFO.

The table below summarizes required and optional reports. All required reports must be sent electronically to GMS listed in the "Agency Contacts" section of the NOFO copying the CDC Project Officer.

Applicants funded under this announcement will be required to electronically submit an end-of-year program progress report due 30 days after the budget period ends, and end-of-year Federal Financial Report due 90 days after the budget period ends. Recipient will receive instructions for both reports with their Notice of Award. Final performance and financial reports are due 90 days after the end of the period of performance.

Progress Reporting: Applicants funded under this announcement will be required to electronically submit a final program progress report. As part of the progress report, financial information will be reported both by major category of expense and by objectives. Progress reports are due 120 days before budget period ends.

Sub award and Executive Compensation Reporting: Applicants must ensure that they have the necessary processes and systems in place to comply with the sub-award and executive total compensation reporting requirements established under OMB guidance at *2 CFR Part 170*, unless they qualify for an exception from the requirements, should they be selected for funding

Cash Transaction Reporting: Recipients must report cash transaction data using the Federal Financial Report (FFR), SF-425. Recipients will utilize the SF-425 lines 10.a through 10.c to report cash transaction data to the Division of Payment Management. The FFR SF-425 (lines 10.a through 10.c) is due to the Payment Management System 30 days after the end of each calendar quarter. The FFR SF-425 electronic submission and dates for the new quarters will be announced through the Payment Management/SmartLink Payment System's bulletin board. Funds will be frozen if the report is not filed on or before the due date.

Federal Disbursement Reporting: The SF-425 will also be used for reporting of expenditure data to meet ASPR's semi-annual and annual financial reporting requirement. All other lines except 10.a through 10.c should be completed.

Tangible Property Report: Recipient will be required to submit an annual Tangible Property Report (SF 428) at the time the annual SF 425 is submitted to CDC. Final SF 428 reports are due 90 days after the end of the period of performance.

Report	When?	Required?
Recipient Evaluation and Performance Measurement Plan, including Data	6 months into award	Yes

Management Plan (DMP)		
Annual Performance Report (APR)	No later than 120 days before end of budget period. Serves as yearly continuation application.	Yes
Federal Financial Reporting Forms	90 days after the end of the budget period	Yes
Final Performance and Financial Report	90 days after end of period of performance	Yes
Payment Management System (PMS) Reporting	Quarterly reports due January 30; April 30; July 30; and October 30	Yes

a. Recipient Evaluation and Performance Measurement Plan (required)
With support from CDC, recipients must elaborate on their initial applicant evaluation and performance measurement plan. This plan must be no more than 20 pages; recipients must submit the plan 6 months into the award. HHS/CDC will review and approve the recipient's monitoring and evaluation plan to ensure that it is appropriate for the activities to be undertaken as part of the agreement, for compliance with the monitoring and evaluation guidance established by HHS/CDC, or other guidance otherwise applicable to this Agreement.

Recipient Evaluation and Performance Measurement Plan (required): This plan should provide additional detail on the following:

Performance Measurement

• Performance measures and targets
• The frequency that performance data are to be collected.
• How performance data will be reported.
• How quality of performance data will be assured.
• How performance measurement will yield findings to demonstrate progress towards achieving NOFO goals (e.g., reaching target populations or achieving expected outcomes).
• Dissemination channels and audiences.
• Other information requested as determined by the CDC program.

Evaluation

• The types of evaluations to be conducted (e.g. process or outcome evaluations).
• The frequency that evaluations will be conducted.
• How evaluation reports will be published on a publically available website.
• How evaluation findings will be used to ensure continuous quality and program improvement.

• How evaluation will yield findings to demonstrate the value of the NOFO (e.g., effect on improving public health outcomes, effectiveness of NOFO, cost-effectiveness or cost-benefit).
• Dissemination channels and audiences.

HHS/CDC or its designee will also undertake monitoring and evaluation of the defined activities within the agreement. The recipient must ensure reasonable access by HHS/CDC or its designee to all necessary sites, documentation, individuals and information to monitor, evaluate and verify the appropriate implementation the activities and use of HHS/CDC funding under this Agreement.

b. Annual Performance Report (APR) (required)

The recipient must submit the APR via www.Grantsolutions.gov no later than120 days prior to the end of the budget period. This report must not exceed 45 pages excluding administrative reporting. Attachments are not allowed, but web links are allowed.
This report must include the following:

- **Performance Measures:** Recipients must report on performance measures for each budget period and update measures, if needed.
- **Evaluation Results:** Recipients must report evaluation results for the work completed to date (including findings from process or outcome evaluations).
- **Work Plan:** Recipients must update work plan each budget period to reflect any changes in period of performance outcomes, activities, timeline, etc.
- **Successes**
    - Recipients must report progress on completing activities and progress towards achieving the period of performance outcomes described in the logic model and work plan.
    - Recipients must describe any additional successes (e.g. identified through evaluation results or lessons learned) achieved in the past year.
    - Recipients must describe success stories.
- **Challenges**
    - Recipients must describe any challenges that hindered or might hinder their ability to complete the work plan activities and achieve the period of performance outcomes.
    - Recipients must describe any additional challenges (e.g., identified through evaluation results or lessons learned) encountered in the past year.
- **CDC Program Support to Recipients**
    - Recipients must describe how CDC could help them overcome challenges to complete activities in the work plan and achieving period of performance outcomes.
- **Administrative Reporting** (No page limit)
    - SF-424A Budget Information-Non-Construction Programs.
    - Budget Narrative – Must use the format outlined in "Content and Form of Application Submission, Budget Narrative" section.

- Indirect Cost Rate Agreement.

The recipients must submit the Annual Performance Report via www.Grantsolutions.gov no later than 120 days prior to the end of the budget period.

c. Performance Measure Reporting (optional)
CDC programs may require more frequent reporting of performance measures than annually in the APR. If this is the case, CDC programs must specify reporting frequency, data fields, and format for recipients at the beginning of the award period.

d. Federal Financial Reporting (FFR) (required)
The annual FFR form (SF-425) is required and must be submitted 90 days after the end of the budget period. The report must include only those funds authorized and disbursed during the timeframe covered by the report. The final FFR must indicate the exact balance of unobligated funds, and may not reflect any unliquidated obligations. There must be no discrepancies between the final FFR expenditure data and the Payment Management System's (PMS) cash transaction data. Failure to submit the required information by the due date may adversely affect the future funding of the project. If the information cannot be provided by the due date, recipients are required to submit a letter of explanation to OGS and include the date by which the Grants Officer will receive information.

e. Final Performance and Financial Report (required)
This report is due 90 days after the end of the period of performance. CDC programs must indicate that this report should not exceed 40 pages. This report covers the entire period of performance and can include information previously reported in APRs. At a minimum, this report must include the following:

- Performance Measures – Recipients must report final performance data for all process and outcome performance measures.
- Evaluation Results – Recipients must report final evaluation results for the period of performance for any evaluations conducted.
- Impact/Results/Success Stories – Recipients must use their performance measure results and their evaluation findings to describe the effects or results of the work completed over the project period, and can include some success stories.
- A final Data Management Plan that includes the location of the data collected during the funded period, for example, repository name and link data set(s)
- Additional forms as described in the Notice of Award (e.g., Equipment Inventory Report, Final Invention Statement).

4. Federal Funding Accountability and Transparency Act of 2006 (FFATA)

Federal Funding Accountability and Transparency Act of 2006 (FFATA), P.L. 109–282, as amended by section 6202 of P.L. 110–252 requires full disclosure of all entities and organizations receiving Federal funds including awards, contracts, loans, other assistance, and payments through a single publicly accessible Web site, http://www.USASpending.gov. Compliance with this law is primarily the responsibility of the Federal agency. However, two elements of the law require information to be collected and reported by applicants: 1) information on executive compensation when not already reported through the SAM, and 2) similar information on all sub-awards/subcontracts/consortiums over $25,000.
For the full text of the requirements under the FFATA and HHS guidelines, go to:

- https://www.gpo.gov/fdsys/pkg/PLAW-109publ282/pdf/PLAW-109publ282.pdf,
- https://www. fsrs.gov/documents /ffata_legislation_ 110_252.pdf
- http://www.hhs.gov/grants/grants/grants-policies-regulations/index.html#FFATA.

5. Reporting of Foreign Taxes (International/Foreign projects only)

A. Valued Added Tax (VAT) and Customs Duties – Customs and import duties, consular fees, customs surtax, valued added taxes, and other related charges are hereby authorized as an allowable cost for costs incurred for non-host governmental entities operating where no applicable tax exemption exists. This waiver does not apply to countries where a bilateral agreement (or similar legal document) is already in place providing applicable tax exemptions and it is not applicable to Ministries of Health. Successful applicants will receive information on VAT requirements via their Notice of Award.

B. The U.S. Department of State requires that agencies collect and report information on the amount of taxes assessed, reimbursed and not reimbursed by a foreign government against commodities financed with funds appropriated by the U.S. Department of State, Foreign Operations and Related Programs Appropriations Act (SFOAA) ("United States foreign assistance funds"). Outlined below are the specifics of this requirement:

1) Annual Report: The recipient must submit a report on or before November 16 for each foreign country on the amount of foreign taxes charged, as of September 30 of the same year, by a foreign government on commodity purchase transactions valued at 500 USD or more financed with United States foreign assistance funds under this grant during the prior United States fiscal year (October 1 – September 30), and the amount reimbursed and unreimbursed by the foreign government. [Reports are required even if the recipient did not pay any taxes during the reporting period.]

2) Quarterly Report: The recipient must quarterly submit a report on the amount of foreign taxes charged by a foreign government on commodity purchase transactions valued at 500 USD or more financed with United States foreign assistance funds under this grant. This report shall be submitted no later than two weeks following the end of each quarter: April 15, July 15, October 15 and January 15.

3) Terms: For purposes of this clause:
"Commodity" means any material, article, supplies, goods, or equipment;

"Foreign government" includes any foreign government entity;
"Foreign taxes" means value-added taxes and custom duties assessed by a foreign government on a commodity. It does not include foreign sales taxes.

4) Where: Submit the reports to the Director and Deputy Director of the CDC office in the country(ies) in which you are carrying out the activities associated with this cooperative agreement. In countries where there is no CDC office, send reports to VATreporting@cdc.gov.

5) Contents of Reports: The reports must contain:
a. recipient name;
b. contact name with phone, fax, and e-mail;
c. agreement number(s) if reporting by agreement(s);
d. reporting period;
e. amount of foreign taxes assessed by each foreign government;
f. amount of any foreign taxes reimbursed by each foreign government;
g. amount of foreign taxes unreimbursed by each foreign government.

6) Subagreements. The recipient must include this reporting requirement in all applicable subgrants and other subagreements.

G. Agency Contacts

CDC encourages inquiries concerning this notice of funding opportunity.

Program Office Contact

For programmatic technical assistance, contact:

Charles Denard, Project Officer
Department of Health and Human Services
Centers for Disease Control and Prevention
Charles Denard 404-718-4555, 1600 Clifton Rd NE, Mailstop:H16-3 , Atlanta, GA 30340, xyg9@cdc.gov

Denise Albina 404-639-3992, 1600 Clifton Rd NE, Mailstop: H24-11, Atlanta, GA 30340, xkl9@cdc.gov

Telephone: (404) 718-4555
Email: xyg9@cdc.gov

Grants Staff Contact

For **financial, awards management, or budget assistance,** contact:

Erica Stewart, Grants Management Specialist
Department of Health and Human Services
Office of Grants Services

Erica Stewart

2939 Flowers Rd. South, MS-TV-2

Atlanta, GA 30341

Phone: 770-488-1005

Email: yfa4@cdc.gov

Telephone: (770) 488-2769
Email: ity9@cdc.gov

For assistance with **submission difficulties related to** www.grants.gov, contact the Contact Center by phone at 1-800-518-4726.
Hours of Operation: 24 hours a day, 7 days a week, except on federal holidays.

CDC Telecommunications for persons with hearing loss is available at: TTY 1-888-232-6348

H. Other Information

Following is a list of acceptable attachments **applicants** can upload as PDF files as part of their application at www.grants.gov. Applicants may not attach documents other than those listed; if other documents are attached, applications will not be reviewed.

- Project Abstract
- Project Narrative
- Budget Narrative
- CDC Assurances and Certifications
- Report on Programmatic, Budgetary and Commitment Overlap
- Table of Contents for Entire Submission

For international NOFOs:

- SF424
- SF424A
- Funding Preference Deliverables

I. Glossary

Activities: The actual events or actions that take place as a part of the program.
Administrative and National Policy Requirements, Additional Requirements (ARs): Administrative requirements found in 45 CFR Part 75 and other requirements mandated by statute or CDC policy. All ARs are listed in the Template for CDC programs. CDC programs must indicate which ARs are relevant to the NOFO; recipients must comply with the ARs listed

in the NOFO. To view brief descriptions of relevant provisions, see http:// www.cdc.gov/ grants/ additional requirements/ index.html. Note that 2 CFR 200 supersedes the administrative requirements (A-110 & A-102), cost principles (A-21, A-87 & A-122) and audit requirements (A-50, A-89 & A-133).

Approved but Unfunded: Approved but unfunded refers to applications recommended for approval during the objective review process; however, they were not recommended for funding by the program office and/or the grants management office.

Assitance Listings (CFDA): A government-wide compendium published by the General Services Administration (available on-line in searchable format as well as in printable format as a .pdf file) that describes domestic assistance programs administered by the Federal Government.

Assistance Listings (CFDA) Number: A unique number assigned to each program and NOFO throughout its lifecycle that enables data and funding tracking and transparency

Award: Financial assistance that provides support or stimulation to accomplish a public purpose. Awards include grants and other agreements (e.g., cooperative agreements) in the form of money, or property in lieu of money, by the federal government to an eligible applicant.

Budget Period or Budget Year: The duration of each individual funding period within the project period. Traditionally, budget periods are 12 months or 1 year.

Carryover: Unobligated federal funds remaining at the end of any budget period that, with the approval of the GMO or under an automatic authority, may be carried over to another budget period to cover allowable costs of that budget period either as an offset or additional authorization. Obligated but liquidated funds are not considered carryover.

CDC Assurances and Certifications: Standard government-wide grant application forms.

Competing Continuation Award: A financial assistance mechanism that adds funds to a grant and adds one or more budget periods to the previously established period of performance (i.e., extends the "life" of the award).

Continuous Quality Improvement: A system that seeks to improve the provision of services with an emphasis on future results.

Contracts: An award instrument used to acquire (by purchase, lease, or barter) property or services for the direct benefit or use of the Federal Government.

Cooperative Agreement: A financial assistance award with the same kind of interagency relationship as a grant except that it provides for substantial involvement by the federal agency funding the award. Substantial involvement means that the recipient can expect federal programmatic collaboration or participation in carrying out the effort under the award.

Cost Sharing or Matching: Refers to program costs not borne by the Federal Government but by the recipients. It may include the value of allowable third-party, in-kind contributions, as well as expenditures by the recipient.

Direct Assistance: A financial assistance mechanism, which must be specifically authorized by statute, whereby goods or services are provided to recipients in lieu of cash. DA generally involves the assignment of federal personnel or the provision of equipment or supplies, such as vaccines. DA is primarily used to support payroll and travel expenses of CDC employees assigned to state, tribal, local, and territorial (STLT) health agencies that are recipients of grants and cooperative agreements. Most legislative authorities that provide financial assistance to STLT health agencies allow for the use of DA. http:// www.cdc.gov /grants /additionalrequirements /index.html.

DUNS: The Dun and Bradstreet (D&B) Data Universal Numbering System (DUNS) number is

a nine-digit number assigned by Dun and Bradstreet Information Services. When applying for Federal awards or cooperative agreements, all applicant organizations must obtain a DUNS number as the Universal Identifier. DUNS number assignment is free. If requested by telephone, a DUNS number will be provided immediately at no charge. If requested via the Internet, obtaining a DUNS number may take one to two days at no charge. If an organization does not know its DUNS number or needs to register for one, visit Dun & Bradstreet at http://fedgov.dnb.com/ webform/displayHomePage.do.

Evaluation (program evaluation): The systematic collection of information about the activities, characteristics, and outcomes of programs (which may include interventions, policies, and specific projects) to make judgments about that program, improve program effectiveness, and/or inform decisions about future program development.

Evaluation Plan: A written document describing the overall approach that will be used to guide an evaluation, including why the evaluation is being conducted, how the findings will likely be used, and the design and data collection sources and methods. The plan specifies what will be done, how it will be done, who will do it, and when it will be done. The NOFO evaluation plan is used to describe how the recipient and/or CDC will determine whether activities are implemented appropriately and outcomes are achieved.

Federal Funding Accountability and Transparency Act of 2006 (FFATA): Requires that information about federal awards, including awards, contracts, loans, and other assistance and payments, be available to the public on a single website at www.USAspending.gov.

Fiscal Year: The year for which budget dollars are allocated annually. The federal fiscal year starts October 1 and ends September 30.

Grant: A legal instrument used by the federal government to transfer anything of value to a recipient for public support or stimulation authorized by statute. Financial assistance may be money or property. The definition does not include a federal procurement subject to the Federal Acquisition Regulation; technical assistance (which provides services instead of money); or assistance in the form of revenue sharing, loans, loan guarantees, interest subsidies, insurance, or direct payments of any kind to a person or persons. The main difference between a grant and a cooperative agreement is that in a grant there is no anticipated substantial programmatic involvement by the federal government under the award.

Grants.gov: A "storefront" web portal for electronic data collection (forms and reports) for federal grant-making agencies at www.grants.gov.

Grants Management Officer (GMO): The individual designated to serve as the HHS official responsible for the business management aspects of a particular grant(s) or cooperative agreement(s). The GMO serves as the counterpart to the business officer of the recipient organization. In this capacity, the GMO is responsible for all business management matters associated with the review, negotiation, award, and administration of grants and interprets grants administration policies and provisions. The GMO works closely with the program or project officer who is responsible for the scientific, technical, and programmatic aspects of the grant.

Grants Management Specialist (GMS): A federal staff member who oversees the business and other non-programmatic aspects of one or more grants and/or cooperative agreements. These activities include, but are not limited to, evaluating grant applications for administrative content and compliance with regulations and guidelines, negotiating grants, providing consultation and technical assistance to recipients, post-award administration and closing out grants.

Health Disparities: Differences in health outcomes and their determinants among segments of the population as defined by social, demographic, environmental, or geographic category.
Health Equity: Striving for the highest possible standard of health for all people and giving special attention to the needs of those at greatest risk of poor health, based on social conditions.
Health Inequities: Systematic, unfair, and avoidable differences in health outcomes and their determinants between segments of the population, such as by socioeconomic status (SES), demographics, or geography.
Healthy People 2030: National health objectives aimed at improving the health of all Americans by encouraging collaboration across sectors, guiding people toward making informed health decisions, and measuring the effects of prevention activities.
Inclusion: Both the meaningful involvement of a community's members in all stages of the program process and the maximum involvement of the target population that the intervention will benefit. Inclusion ensures that the views, perspectives, and needs of affected communities, care providers, and key partners are considered.
Indirect Costs: Costs that are incurred for common or joint objectives and not readily and specifically identifiable with a particular sponsored project, program, or activity; nevertheless, these costs are necessary to the operations of the organization. For example, the costs of operating and maintaining facilities, depreciation, and administrative salaries generally are considered indirect costs.
Intergovernmental Review: Executive Order 12372 governs applications subject to Intergovernmental Review of Federal Programs. This order sets up a system for state and local governmental review of proposed federal assistance applications. Contact the state single point of contact (SPOC) to alert the SPOC to prospective applications and to receive instructions on the State's process. Visit the following web address to get the current SPOC list: https://www.whitehouse.gov/wp-content/uploads/2017/11/Intergovernmental_-Review-_SPOC_01_2018_OFFM.pdf.
Letter of Intent (LOI): A preliminary, non-binding indication of an organization's intent to submit an application.
Lobbying: Direct lobbying includes any attempt to influence legislation, appropriations, regulations, administrative actions, executive orders (legislation or other orders), or other similar deliberations at any level of government through communication that directly expresses a view on proposed or pending legislation or other orders, and which is directed to staff members or other employees of a legislative body, government officials, or employees who participate in formulating legislation or other orders. Grass roots lobbying includes efforts directed at inducing or encouraging members of the public to contact their elected representatives at the federal, state, or local levels to urge support of, or opposition to, proposed or pending legislative proposals.
Logic Model: A visual representation showing the sequence of related events connecting the activities of a program with the programs' desired outcomes and results.
Maintenance of Effort: A requirement contained in authorizing legislation, or applicable regulations that a recipient must agree to contribute and maintain a specified level of financial effort from its own resources or other non-government sources to be eligible to receive federal grant funds. This requirement is typically given in terms of meeting a previous base-year dollar amount.
Memorandum of Understanding (MOU) or Memorandum of Agreement (MOA): Document that describes a bilateral or multilateral agreement between parties

expressing a convergence of will between the parties, indicating an intended common line of action. It is often used in cases where the parties either do not imply a legal commitment or cannot create a legally enforceable agreement.

Nonprofit Organization: Any corporation, trust, association, cooperative, or other organization that is operated primarily for scientific, educational, service, charitable, or similar purposes in the public interest; is not organized for profit; and uses net proceeds to maintain, improve, or expand the operations of the organization. Nonprofit organizations include institutions of higher educations, hospitals, and tribal organizations (that is, Indian entities other than federally recognized Indian tribal governments).

Notice of Award (NoA): The official document, signed (or the electronic equivalent of signature) by a Grants Management Officer that: (1) notifies the recipient of the award of a grant; (2) contains or references all the terms and conditions of the grant and Federal funding limits and obligations; and (3) provides the documentary basis for recording the obligation of Federal funds in the HHS accounting system.

Objective Review: A process that involves the thorough and consistent examination of applications based on an unbiased evaluation of scientific or technical merit or other relevant aspects of the proposal. The review is intended to provide advice to the persons responsible for making award decisions.

Outcome: The results of program operations or activitIes; the effects triggered by the program. For example, increased knowledge, changed attitudes or beliefs, reduced tobacco use, reduced morbidity and mortality.

Performance Measurement: The ongoing monitoring and reporting of program accomplishments, particularly progress toward pre-established goals, typically conducted by program or agency management. Performance measurement may address the type or level of program activities conducted (process), the direct products and services delivered by a program (outputs), or the results of those products and services (outcomes). A "program" may be any activity, project, function, or policy that has an identifiable purpose or set of objectives.

Period of performance –formerly known as the project period - : The time during which the recipient may incur obligations to carry out the work authorized under the Federal award. The start and end dates of the period of performance must be included in the Federal award.

Period of Performance Outcome: An outcome that will occur by the end of the NOFO's funding period

Plain Writing Act of 2010: The Plain Writing Act of 2010 requires that federal agencies use clear communication that the public can understand and use. NOFOs must be written in clear, consistent language so that any reader can understand expectations and intended outcomes of the funded program. CDC programs should use NOFO plain writing tips when writing NOFOs.

Program Strategies: Strategies are groupings of related activities, usually expressed as general headers (e.g., Partnerships, Assessment, Policy) or as brief statements (e.g., Form partnerships, Conduct assessments, Formulate policies).

Program Official: Person responsible for developing the NOFO; can be either a project officer, program manager, branch chief, division leader, policy official, center leader, or similar staff member.

Public Health Accreditation Board (PHAB): A nonprofit organization that works to promote and protect the health of the public by advancing the quality and performance of public health departments in the U.S. through national public health department accreditation http://www.phaboard.org.

Social Determinants of Health: Conditions in the environments in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.
Statute: An act of the legislature; a particular law enacted and established by the will of the legislative department of government, expressed with the requisite formalities. In foreign or civil law any particular municipal law or usage, though resting for its authority on judicial decisions, or the practice of nations.
Statutory Authority: Authority provided by legal statute that establishes a federal financial assistance program or award.
System for Award Management (SAM): The primary vendor database for the U.S. federal government. SAM validates applicant information and electronically shares secure and encrypted data with federal agencies' finance offices to facilitate paperless payments through Electronic Funds Transfer (EFT). SAM stores organizational information, allowing www.grants.gov to verify identity and pre-fill organizational information on grant applications.
Technical Assistance: Advice, assistance, or training pertaining to program development, implementation, maintenance, or evaluation that is provided by the funding agency.
Work Plan: The summary of period of performance outcomes, strategies and activities, personnel and/or partners who will complete the activities, and the timeline for completion. The work plan will outline the details of all necessary activities that will be supported through the approved budget.

NOFO-specific Glossary and Acronyms

AR-Augmented Reality

DHQP-Division of Healthcare Quality Promotion

EMS-Emergency Medical Services

HF-Human factors

IPC-Infection Prevention and Control

NETEC-National Ebola Training and Education Center

PPE-Personal Protective Equipment

SMART-Specific, Measurable, Actionable, Reasonable, Timely

SOP-Standard Operating Procedure

VHF-Viral hemorrhagic fever