APHA

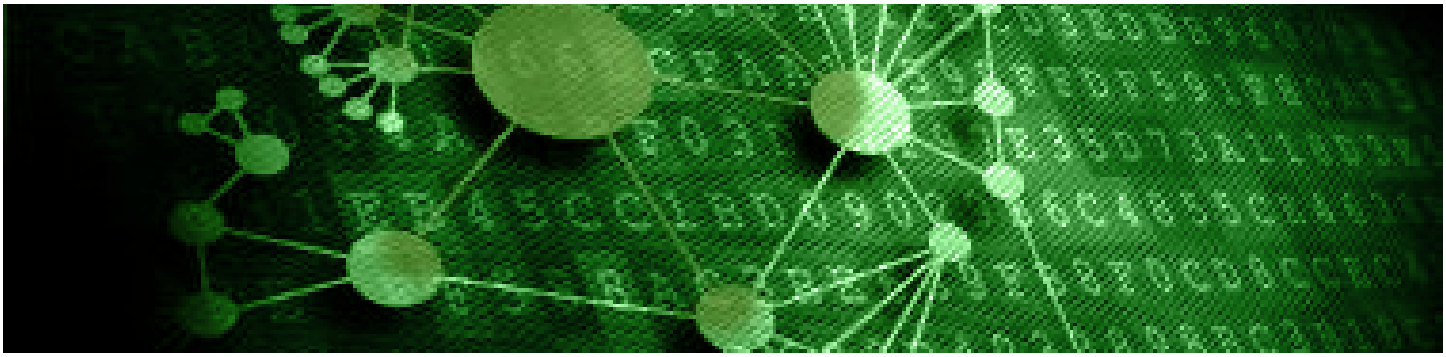
AMERICAN PUBLIC HEALTH ASSOCIATION

For science. For action. For health.

Injury and Violence Prevention

Data Science Demonstration Project

Request for Proposals



Overview

Data science is a multidisciplinary approach that blends techniques from computer science, statistics, epidemiology, and other domains. It often focuses on large or novel data sources and the application of mathematical methods such as machine learning or natural language processing. This particular focus on large and complex data sources has the intention to improve the measurement and prevention of a host of public health issues including injury and violence[1].

With a dedicated focus on this emerging field we can continue to uncover ways to improve public health assessments, interventions, and other mechanisms to improve health, safety and well-being for our communities.

Opportunity

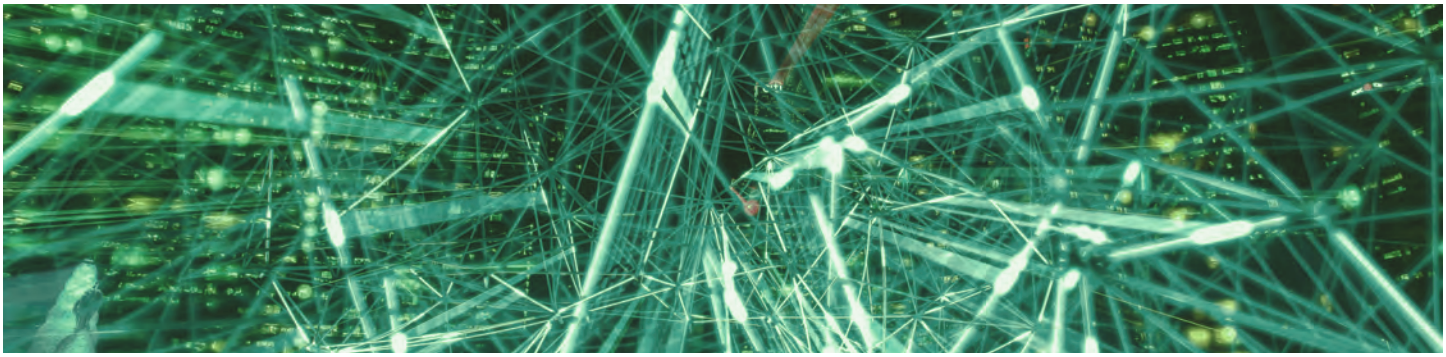
To elevate the utility of data science in advancing public health practice, the Centers for Disease Control and Prevention, National Center for Injury Prevention and Control in partnership with the American Public Health Association have developed the Injury and Violence Prevention Data Science Demonstration Project. The overarching aim of this initiative is to provide technical assistance and capacity building support to organizations doing data science work. We are seeking responses from groups with existing data science projects and looking to expand their efforts. They can be engaged in projects to improve the timeliness of health information, responding to public health threats in a more efficient manner, increasing the effectiveness of prevention programs/campaigns or other topics.

Goals

CDC and APHA recognize the promise of data science and this effort intends to:

- Enhance the data science workforce and capacity
- Strengthen data science partnerships
- Increase awareness of the public health benefits from data science

1 Centers for Disease Control and Prevention. Data Science Strategy for Injury and Violence Prevention. Atlanta, GA: National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, 2020.



Program Components

Customized TA from a Data Science SME

Each site will be assigned a liaison and meet monthly to address TA needs or other aspects related to the project.

Funding

Each site will be awarded $40,000–$150,000 to assist with project implementation. Final award amount will be determined by an internal team and in some instances may be lesser the amount requested.

Community of Practice

There will be opportunities for sites to engage with one another to share any lessons learned and best practices throughout the duration of the project.

Learning Labs

Sites will be able to participate in professional development opportunities related to data science.

Eligibility Criteria

This opportunity is open to organizations or institutions currently working on data science projects focused on injury and violence prevention. If various groups representing multiple organizations are partnering on a collective effort, they are also eligible to apply.

Priority will be given to projects focusing on the following:

- Use of predictive modeling or machine learning to improve service delivery
- Online, app based, or other technology based intervention to address injury or violence
- Data linkage for injury prevention
- Use of natural language processing or novel data such as online data for injury and violence prevention activities
- Content areas: suicide, overdose or Adverse Childhood Experiences.

Scope of Work/Program Requirements

At the conclusion of this program, it is expected that participants will demonstrate enhanced capacity in data science and disseminate project findings.

Program participants are committing to the following:

- Participate in TA meetings with the CDC/APHA project team
- Submit Interim Report
- Respond to Bi-monthly brief surveys
- Participate in Learning Labs
- Translate project findings (e.g. report, case study, manuscript, etc.)
- Submit final report to CDC/APHA

Timeline

Activity	Date
Application Opens	January 8
Submission Deadline	February 12
Application Acceptances and Regrets disseminated	February 26
Demonstration Project Kick-off Meeting (Virtual)	March 8
Program Period • Bi-weekly TA meetings • Monthly Surveys • Final Report	March–September
Interim Report	July 30
Final Report	September 30

Incurred Expenses

APHA will not be responsible for any costs incurred by any Offeror in preparing and submitting a proposal or in performing any other activities relative to this solicitation.

Proposal Submission

Final proposal responses should be submitted to mighty.fine@apha.org by 10 p.m. PT on Feb. 12, 2021. Include Data Science RFP-(Organization Name) in the subject line.

Any submissions received after that date/time will not be reviewed, and requests for extension will not be considered.

Contact Information

Lead Organization	
Primary Point Contact (Include CV/Resume of Primary Point of Contact as an attachment)	
Name	
Title	
Email	
Phone	

Proposal Response

Applicants must provide clear and concise responses to the following prompts and questions:

Current Data Science Project Overview (2000 words)

Include the following components in your response.

- Project start date
- Data source(s) being used
- Project Goals
- Project Objectives
- The injury or violence prevention issue being addressed
- Collaboration (if applicable)
- Key Activities
- Techniques
- Expected results
- Proposed plan for showcasing the findings
- Evaluation Plan or Strategy
- Any successes/challenges

Current Data Science Project Overview (2000 words)

Innovation (300 words)

What is the potential scientific contribution of this work?

Organization Capacity (300 words)

Describe the lead organization's capacity to facilitate this project.

Technical Assistance Needs (300 words)

What are some potential TA or capacity building assistance needs?

Demonstration Project Participation (300 words)

How will your team benefit from participating in this initiative?

Proposed Budget

Fiscal Agent information (contact name, title, organization, phone, email). Include the activity, the justification and amount. Each expense should be numbered.

Activity	Brief Description/Justification	Cost/Rate
	TOTAL	

Proposal Format

- Proposals can be submitted as a pdf using the fillable fields
  - We recommend completing and saving your responses in word and then pasting them into the pdf
- They shall include the following:
  - A cover page
  - Contact Information
  - Current Data Science Project Overview (2000 words)
    - Each subsection listed in this section should be underlined to clearly identify the response for the requested information
  - Innovation (300 words)
  - Organization Capacity (300 words)
  - Technical Assistance Needs (300 words)
  - Demonstration Project Participation (500 words)
  - Primary POC CV or Resume
- Proposals can also be submitted using Microsoft Word or comparable program.
  - Text shall be printed using a font size no less than 12
  - Page margins shall be a minimum of 1-inch top, bottom and each side.
  - Responses to each section of the proposal shall be labeled as identified above

Evaluation Criteria

Proposals will be reviewed and objectively evaluated based on how well the respondent's current data science project aligns with the overall goals and purpose of this initiative.

Questions

Questions from prospective respondents can be sent to mighty.fine@apha.org and should be submitted by Feb. 5, 2021.