

APHA Injury and Violence Prevention

Data Science Demonstration Project

Request for Application 2025

Data Science Subject Matter Expert

(Consultant)



### Period of Performance

**Duration: 60 Days** 

Application Due Date: June 13, 2025 Anticipated Start Date: June 20, 2025

Compensation: Negotiable Based on Experience and Proposed Approach

### Overview

The American Public Health Association seeks a Data Scientist consultant to guide and support participating demonstration sites in applying data science to improve public health outcomes.

# Opportunity

To elevate the utility of data science in advancing public health practice, the American Public Health Association, has developed the Injury and Violence Prevention Data Science Demonstration Project. The overarching aim of this initiative is to enhance public health capacity and provide support to organizations engaged in data science work.

We are seeking a consultant to provide technical assistance and serve as a subject matter expert to five participating organizations for to enhance their capacity in the utility of data science in addressing injury and violence-related public health challenges.

Projects may focus on:

- Improving the timeliness of health information,
- Enhancing the efficiency of responses to public health threats,
- Increasing the effectiveness of prevention programs and campaigns, or
- Addressing other critical public health priorities.

# Scope of Work

The selected consultant will:

- Serve as a technical advisor to selected demonstration sites.
- Provide monthly one-on-one consultations and be available for ad-hoc technical support.
- Participate in monthly meetings with the APHA project team.
- Assist in the development and review of data science strategies.

- Provide input into final deliverables, ensuring plain-language communication of complex concepts.
- Offer guidance on the application of machine learning, NLP, predictive analytics, and other emerging methods to areas such as:
  - Injury surveillance (e.g., NVDRS, SUDORS)
  - Nowcasting for overdose and injury trends
  - NLP for qualitative data analysis
  - Predictive modeling for service delivery or violence prevention
  - Data linkage methodologies

# **Proposed Budget**

Fiscal Agent information:

Name	
Title	
Organization	
Email	
Phone	

Activity	Brief Description/Justification	Cost/Rate
Subject matter expert providing		
technical support		
Learning Lab		
		Total:

## **Consultant Deliverables**

- Monthly meeting summaries
- Written technical feedback to participating organizations (as needed)
- Final consultancy report summarizing key insights and recommendations
- Attendance and participation in Learning Labs or Data Science Collaborative meetings as appropriate

# **Eligibility Criteria**

Eligible applicants must meet the following:

Demonstrated expertise in data science (including NLP, machine learning, or Al applications in public health)

- Experience working in or advising on public health data systems, especially those related to injury, violence, or overdose
- Ability to communicate complex technical concepts to non-technical public health practitioners
- Prior experience providing technical assistance, consulting, or advisory services

#### **Preferred Qualifications:**

- Prior collaboration with national or local public health organizations
- Understanding of NVDRS, SUDORS, or other injury surveillance systems

# **Application Requirements**

Interested applicants must submit the following:

- Cover Letter outlining qualifications and interest
- Curriculum Vitae or Resume
- Proposed Budget (aligned with experience and scope)
- Past Performance Examples: Summary of 2–3 relevant past projects/subject matter expert roles
- References (at least two professional references with contact info)

## **Evaluation Criteria**

Applications will be reviewed based on the following:

- Demonstrated expertise in relevant data science domains (40%)
- Relevant experience in injury or violence prevention (25%)
- Quality and feasibility of proposed plan (20%)
- Clarity and suitability of budget (10%)
- References (5%)

## **Submission Instructions**

Submit application materials to yeatoe.mcintosh@apha.org by June 13, 2025, with subject line: "Data Science Consultant RFA Submission – [Applicant Name]". Late or incomplete submissions will not be reviewed. For questions, please contact yeatoe.mcintosh@apha.org by close of business on Wednesday, June 11, 2025.