Vehicle Electronic System Safety IDIQ Research Services Contract

Active
Contract Opportunity
Notice ID
693JJ919RQ000626
Related Notice
Department/Ind. Agency
TRANSPORTATION, DEPARTMENT OF
Sub-tier
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
Office
693JJ9 NHTSA OFFICE OF ACQUISTION

General Information

- **Contract Opportunity Type:** Sources Sought (Original)
- **All Dates/Times are:** (UTC-05:00) EASTERN STANDARD TIME, NEW YORK, USA
- **Original Published Date:** Nov 04, 2019 04:23 pm EST
- **Original Response Date:** Nov 13, 2019 03:00 pm EST
- **Inactive Policy:** Manual
- **Original Inactive Date:**
- **Initiative:**
    - None

Classification

- **Original Set Aside:**
- **Product Service Code:** H - QUALITY CONTROL, TEST, INSPECTION
- **NAICS Code:** 541380 - Testing Laboratories
- **Place of Performance:**

  Washington , DC 20590

USA

Description

Action Code: Sources Sought

Classification Code: H923, Other Quality Control Services/Ground Effect Vehicles, Motor Vehicles, Trailers, and Cycles

Solicitation: 693JJ919RQ000626

Agency/Office: National Highway Traffic Safety Administration (NHTSA)

Location: National Highway Traffic Safety Administration HQ

NAICS Code: 541380, Testing Laboratories, $16.5 M.

Point of Contract: Vincent Lynch, Contracting Officer, ph(202) 366-9568

Title: Vehicle Electronic System Safety IDIQ Research Services Contract"

Description(s):

The National Highway Traffic Safety Administration (NHTSA) is issuing this Sources Sought Notice to identify potential qualified Small Business (SB), Small Disadvantaged Business (SDB), 8(a) Certified SDB, HUBZone SB, SDVOSB, or WOSB concerns that may be interested in and capable of performing the work described herein to perform studies, testing and other research to identify and evaluate how vehicle electronic subsystems can affect vehicle safety risk and what countermeasures would minimize that risk.

NHTSA welcomes all qualified Small Business concerns, with the appropriate NAICS Code and past experience to submit their Corporate Capability Statements that demonstrate their ability to successfully accomplish the goals of the project as listed below. NHTSA does not intend to award a contract on the basis of responses to this notice or otherwise pay for the preparation of any information submitted. Acknowledgement of receipt of responses will not

be made; no formal evaluation of the information received will be conducted by NHTSA. NHTSA may; however later on issue a Request for Proposals (RFP). However, should such a requirement fail to materialize, no basis for claims against NHTSA shall arise as a result of a response to this notice.

Background:

The National Highway Traffic Safety Administration (NHTSA) is an agency of the U.S. Department of Transportation (DOT). NHTSA's mission is to save lives, prevent injuries and reduce traffic-related health care and other economic costs. The agency develops, promotes and implements effective educational, engineering and enforcement programs with the goal of ending preventable tragedies and reducing economic costs associated with vehicle use and highway travel. The National Highway Traffic Safety Administration, Electronic Systems Safety Division (NSR-330) of the Office of Vehicle Crash Avoidance and Electronic Controls Research (NSR-300), conducts studies to provide analysis of crash causation factors imply that the vast majority of serious crashes are due to dangerous choices or errors people make behind the wheel . In addition to the historical contributors to these statistics, such as impaired driving and failing to use seat belts, we are now faced with increased distraction resulting in avoidable deaths and injuries.

The Advanced Driver Assistance Systems (ADAS) research plan represents National Highway Traffic Safety Administration's (NHTSA) Office of Vehicle Safety Research's plan for conducting research to advance the safe development and deployment of crash avoidance (CA) technologies (SAE Level 0) as well as driver assistance systems that require full driver engagement (SAE automation levels 1 & 2).

Objective:

The overall objective of NHTSA's ADAS Research program is to provide automotive industry stakeholders with information, analyses and tools to help advance the safe development and deployment of these systems, and when appropriate, removing regulatory barriers that may prevent introduction of advanced technology driver assistance systems.

Capabilities:

The corporate capability statement must address the capabilities necessary to accomplish the scope outlined above as well as the additional tasks and characteristics given below:

SUPPLIES/SERVICES

The Contractor shall provide the necessary qualified personnel, facilities, materials, supplies, equipment, and services as identified in the SOW, which are necessary to perform the services listed below

These major research areas are:

1. Controlled-Environment Evaluation Methods

- Test-track research and associated advanced tool development (including remote controlled GSTs, etc.)
- Driving simulator studies

2. Functional Safety Assessments, and Electronic Component Level Testing

- Functional safety assessments of vehicle electronic sub-systems perception systems (sensors) research support,
- Other electronic, control, & component level testing support (may include HIL, Software -in the-Loop (SIL), and Vehicle-in-the-Loop (VIL) modeling and simulation)

3. Management of Filed Operational Tests (FOTs) and Naturalistic Studies

- Planning and managing operation of Field Studies
- Vehicle-level instrumentation and data collection
- ADS Pilot concepts and support
- Collection and analysis of vehicle data.

4. Safety Impact Assessment Support and Vehicle Safety Related Components

- Crash data acquisition and analysis
- Crash causation and crash modeling studies
- Countermeasure modeling and simulation
- Safety benefits analysis
- Support for research on vehicle systems that may impact safety (tires; lighting, mirrors, steering or braking components)

5. Cybersecurity

- Development of cybersecurity guidelines and best practices
- Incident research support
- Development of cyber-resiliency evaluation methods
- Software Assurance and testing

6. Vehicle Safety Communications

- Communication technologies
- Spectrum research
- Mapping & related technologies
- Communications Security

7. Standards Development and Adaptation of Requirements

- Adapting technical requirements for ADS vehicles
- Research into removing regulatory barriers for technology innovations
- Support the development and implementation of voluntary industry-based standards and guidelines

At the time of award the contractor must have all necessary personnel, facilities and equipment. Results of work conducted under this contract will facilitate the reduction of motor vehicle crash-related injuries and fatalities.

Format of Corporate Capabilities Statement:

Any interested qualified Small Business firms, Small Disadvantaged Business (SDB), 8(a) Certified SDB, HUBZone SB, SDVOSB, or WOSB concerns should submit their Corporate Capability Statement, which demonstrates the firm's ability and past experience in no more than 10 pages to perform the key requirements described above to the identified NHTSA point of contact listed herein.

Any proprietary information should be marked as such. All respondents are asked to certify the type and size of their business organization is in-line with the requirements of this Sources Sought Notice, and must be received no later than 10 calendar days from the date of publication of this notice.

Attachments/Links

Download All Attachments/Links
Attachments

Document	File Size	Access	Updated Date
19RQ000626_(Draft_SOW).pdf (opens in new window)	428 KB	Public	Nov 04, 2019
Sources_Sought_Notice_(693JJ919RQ000626)_Vehicle_Safety_Systems_IDIQ.pdf (opens in new window)	157 KB	Public	Nov 04, 2019

file uploads

Contact Information

Contracting Office Address

- WASHINGTON , DC 20590

Primary Point of Contact

- **Vincent Lynch**
- vincent.lynch@dot.gov
- Phone Number 202-366-9568