# Biomechanics Research IDIQ Contract

Active
Contract Opportunity
Notice ID
693JJ919RQ000759
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 07, 2019 02:09 am EST
- **Original Response Date:** Nov 15, 2019 03:00 am EST
- **Inactive Policy:** Manual
- **Original Inactive Date:**
- **Initiative:**
    - None

## Classification

- **Original Set Aside:**
- **Product Service Code:** 59 - ELECTRICAL/ELECTRONIC EQPT COMPNTS
- **NAICS Code:** 334515 - Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
- **Place of Performance:**

  Washington , DC 20590

USA

# Description

Action Code:  Sources Sought

Classification Code:  5963 Electronic Modules

Solicitation: 693JJ919RQ000759

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

Location: National Highway Traffic Safety Administration HQ

NAICS Code:  334515, Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals, 750 Employees.

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

Title:  Biomechanics Research IDIQ 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 provide anthropomorphic test devices (ATDs) and computational ATD and human models to observe and record the mechanical and injury response of human surrogates to prescribed loading conditions.  In an effort to provide NHTSA with the broadened knowledge of a wide range of occupant types, crash modes, and injury mechanisms, to ultimately provide a basis for improved vehicle and restraint system design.

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's (NHTSA) 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 vehicle crash tragedies and reducing economic costs associated with vehicle use and highway travel. The Office of Vehicle Safety Compliance conducts extensive research, development, testing, crash investigation, and data collection and analysis activities to provide the scientific basis needed to support the Agency's motor vehicle and traffic safety goals. In addition to supporting internal NHTSA efforts, NHTSA-sponsored research provides high-quality publicly-accessible data that serves as the basis for countless other research endeavors.

NHTSA strives to base its rulemaking and research priorities on findings from field crash data. Priorities are also set based on needs related to test devices and evaluation criteria. NHTSA's current research portfolio incorporates topics related to the experimental and mathematical biomechanics of adults and children, including anthropomorphic test device (ATD) development; protection of vulnerable populations such as older and obese occupants, small female occupants, and pedestrians; fundamental investigations of response and injury risk of specific body regions such as the brain, lower spine, abdomen; and experimental and computational assessment of occupant protection for vehicles with advanced driving systems. In addition to these topics, NHTSA's Crash Injury Research and Engineering Network (CIREN) program provides insight into developing trends in motor vehicle crash injury. This insight translates into emerging research topics, and CIREN research projects frequently graduate to full research programs. This research contract seeks to provide the Office of Vehicle Safety Research with a mechanism to address these research areas through a comprehensive series of experimental, computational, and analytical activities. NHTSA's input will be a critical element of the research, and will help guide the specific activities throughout the period of performance.

**Objective:**

The objectives of the research described in this Statement of Work will expand NHTSA's and the public's understanding of human injury biomechanics and tolerance, performance of anthropomorphic test devices (ATDs) and computational ATD and human models, and human response to crash loading using a combination of experimental, computational, and analytical methods.

**Capabilities:**

The corporate capability statement must address the capabilities necessary to accomplish the scope outlined above. Additionally, the Contractor's facilities shall have the capacity to support experimental biomechanics testing, though NHTSA anticipates making multiple awards so that all types of testing (e.g. full-scale vehicle crashes, sled tests, etc.) are not required for any given Contractor. It is expected, however, that a given Contractor be able to support a specific type of test from start to end, including specimen preparation, instrumentation, and post-test evaluation. Pre-and post-test evaluation of biological specimens shall include radiologic evaluation. The Contractor shall select PMHS for testing according to the requirements specified in each Task Order. Any PMHS specimens used shall be evaluated for preexisting injuries prior to the testing, and shall undergo full autopsy following testing to identify induced injuries. Anthropometric studies will require the Contractor to have access to three-dimensional scanning equipment.

**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 9 calendar days from the date of publication of this notice.

# Attachments/Links

Download All Attachments/Links

Attachments

| Document | File Size | Access | Updated Date |
|---|---|---|---|
| Draft_SOW_-_693JJ919RQ000759.pdf (opens in new window) | 64 KB | Public | Nov 07, 2019 |
| Sources_Sought_Notice_(693JJ919RQ000759)_Biomechanics_Research_IDIQ_Contract.pdf (opens in new window) | 24 KB | Public | Nov 07, 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