

# Finite Element Modeling Services IDIQ Contract

ACTIVE

## Contract Opportunity

### Notice ID

693JJ920RQ000615

### Related Notice

### Department/Ind. Agency

TRANSPORTATION, DEPARTMENT OF

### Sub-tier

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

### Office

693JJ9 NHTSA OFFICE OF ACQUISITION

## General Information

- **Contract Opportunity Type:** Sources Sought (Original)
- **All Dates/Times are:** (UTC-04:00) EASTERN STANDARD TIME, NEW YORK, USA
- **Original Published Date:** Jun 02, 2020 05:09 pm EDT
- **Original Response Date:** Jun 13, 2020 03:00 pm EDT
- **Inactive Policy:** Manual
- **Original Inactive Date:** Sep 30, 2020
- **Initiative:**
  - None

## Classification

- **Original Set Aside:**
- **Product Service Code:** R412 - SUPPORT- PROFESSIONAL: SIMULATION
- **NAICS Code:** 541380 - Testing Laboratories
- **Place of Performance:**

Washington , DC

USA

## Description

Action Code: Sources Sought

Classification Code: R412, Simulations

Solicitation: 693JJ920RQ000615

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: Finite Element Modeling Services 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 perform studies, testing and other research for crash simulation models to evaluate potential crash conditions and their effects on the safety response of vehicles and human surrogates (dummies) subject to vehicle-to-vehicle, vehicle-to-barrier, and other impacts.

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 Research 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.

The Office of Vehicle Safety Research (VSR) is the primary organization within NHTSA responsible for conducting research related to the improvement of motor vehicle performance to enhance safety. VSR conducts research and development programs to develop and advance the scientific knowledge to support NHTSA's mission.

**Objective:**

The objective is to provide research data so that NHTSA can achieve its mission of reducing death and injuries on American roadways using crash simulations of vehicle safety research tests to predict the impact of potential safety implications. These efforts will include full vehicle laser scanning and tear down for the development of new finite element models, material testing to define the behavior of vehicle materials under impact conditions, mesh development, and part integration to develop full vehicle and vehicle component finite element models.

**Capabilities:**

The corporate capability statement must address the capabilities necessary to accomplish tasks that may involve the use of lumped parameter modeling software such as MADYMO; however, the majority of NHTSA's anticipated crash simulation efforts will involve non-linear finite element analysis. The resulting models will be exercised and refined to match available crash test data. The resulting LS-Dyna models shall be exercised using existing vehicle models in LS-Dyna simulations as outlined above as well as in the attached Statement of Work.

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
<a href="#">Sources Sought Notice_(693JJ920RQ000615) Finite Element Modeling Services IDIQ.pdf (opens in new window)</a>	121 KB	Public	Jun 02, 2020
<a href="#">RQ200000615 (Draft SOW).pdf (opens in new window)</a>	207 KB	Public	Jun 02, 2020

## Contact Information

### Contracting Office Address

- OFFICE OF ACQUISITION MANAGEMENT 1200 NEW JERSEY AVE SE, ROOM W51-30
- WASHINGTON , DC 20590
- USA

### Primary Point of Contact

- **Vincent Lynch**
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- Phone Number2023669568