

**Future Tactical Truck System  
Advanced Concept Technology Demonstration  
Research Announcement  
W56HZV-04-Q-RA01  
US Army Tank-automotive and Armaments Command, Warren, MI**

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**BACKGROUND**

The Army needs to modernize its Tactical Wheeled Vehicle (TWV) fleet to maximize readiness, meet future force requirements, and minimize operating and support costs. The Army's TWV modernization strategy includes a number of activities in the near term to help define and meet those needs. They generally include ongoing improvements to the current fleet, near-term technology insertion efforts, and consideration of alternative TWV solutions. This ACTD solicitation is one of the activities.

It is the Government's intent to provide other opportunities for industry to become involved with the development of future Army sustainment concepts to include a number of "rodeos" to seek new and innovative technologies with potential application to either the current or future TWV fleet. The Technology Rodeo, focused on enhanced component technologies, will be conducted in February 2005. The Technology Rodeo is a formal demonstration which will be offered in conjunction with the annual TWV conference held in Monterey, California. The actual Technology Rodeo will be conducted at the Nevada Automotive Test Center (NATC) immediately following the TWV conference. The Technology Rodeo is linked to the Expedited Modernization Initiative Procedure (EMIP) process that will be fully defined for industry in a separate announcement expected shortly in FedBizOpps. The EMIP is a multi-phased, continuous process designed to improve the current and future TWV fleet by identifying and leveraging industry's investments in advanced technologies, and to allow for insertion of these technologies as quickly as possible. The Program Manager, Tactical Vehicles (PM-TV) is seeking technology that will improve the capabilities of the current fleet in regards to agility / versatility, deployability, responsiveness, sustainability, and survivability to support continuous future force operations with the right products at the right time for the right price. Although all ideas/concepts to improve the fleet will be considered, the EMIP process will only address those technologies that can be available for production within six months of completion of verification testing. The second rodeo, the Tactical Wheeled Vehicle (TWV) Rodeo will consider complete vehicle solutions and will be conducted within the same timeframe (3rd/4th quarter FY06) as the FTTS ACTD Military Utility Assessment (MUA). Vehicle solutions will not be limited as these solutions can represent current as well a future TWV solutions and cover the full range of the TWV fleet. Contractors will be responsible for funding development and build of their vehicle solutions as well as transportation to and from the chosen TWV Rodeo location which may be at a Government or Industry Proving Grounds, the site where the FTTS ACTD MUA is being conducted (anticipated to be Ft. Lewis, Washington) or at another Military Installation. The Army Test & Evaluation Command (ATEC) will be major player in the conduct of the TWV Rodeo. As is in the case of the FTTS ACTD and the Technology Rodeo, the TWV Rodeo will assist the U.S. Army Training & Doctrine Command (TRADOC) in gaining additional insights into feasible TWV capabilities that are needed to complete the UV and Medium/Heavy TWV Capability Design Documents (CDD) and Capability Production Documents (CPD) which will be the basis for a competitive solicitation managed by PM-TV for a UV and Medium/Heavy

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production line currently scheduled to start in FY08. Detailed information describing the TWV Rodeo will be announced in FedBizOpps most likely in the April/May 2005 timeframe.

Offerors for this solicitation are not required to participate in any other activity as a condition for award. Participation in the other activities will not be considered in evaluation for award of this solicitation. Likewise, offerors, whether successful or not in receiving an award for this solicitation, are not constrained in any manner from participating in the other activities. The other opportunities discussed above reflect current planning. Interested parties should look for the respective announcements for full information and any changes. Questions/comments on the EMIP process and/or Technology Rodeo should be sent to [PM-TVIndustryMailbox@tacom.army.mil](mailto:PM-TVIndustryMailbox@tacom.army.mil)

## **1. Introduction**

The U.S. Army Tank-automotive and Armaments Command (TACOM) is seeking interested parties to provide concept designs, modeling and simulation (M&S) analyses and subsystems selection in support of the Future Tactical Truck System (FTTS). This initial effort will be followed by a down select competition for vehicle fabrication and demonstrator activities. This requirement addresses all variants with an emphasis on the Maneuver Sustainment Vehicle (MSV) distribution and Utility Vehicle (UV) support variants with companion trailers. The initial work is modeling and simulation, which will focus on the MSV and UV resulting in a Preliminary Design Review (PDR) and a Critical Design Review (CDR). Following CDR, there will be two down select competitions limited to those participating in the M&S effort. The Government will provide the criteria for the down select as early as possible, but no later than at the M&S start of work meeting. The two down select competitions will result in having (A) one or more contractors design and fabricate (2) MSVs, with an option for up to three (3) MSVs and an option for up to five (5) Companion Trailers; and (B) one or more contractors design and fabricate seven (7) UVs with an option for up to two UV Companion Trailers. A Military Utility Assessment (MUA) will be performed for each vehicle type, requiring contractor support. The Government intends to use Advanced Collaborative Environment (ACE) to facilitate real-time collaborative program management and to integrate Contractor M&S and program management data.

## **2. Program Objectives**

The objective of the FTTS Advanced Concept Technology Demonstration (ACTD) is to assess key technologies and emerging Future Army (FA) Sustainment Concepts in developing the requirements of an optimized Maneuver Sustainment Vehicle (MSV) and Utility Vehicle (UV) for the Unit of Action. This will be accomplished through an extensive modeling and simulation (M&S) program, followed by the use of demonstrators. Down select Contractors shall demonstrate the performance of either the MSV Distribution variant or UV Support variant or both, to possibly include Companion Trailers for each vehicle. The platform is defined as the base chassis system.

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**3. Discussion**

a. This Research Announcement (RA) (hereinafter also referred to as the “announcement”) is the only solicitation for this M&S effort; no further solicitations will be issued. This is not a Federal Acquisition Regulation (FAR) based solicitation, however any FAR or Defense FAR Supplement (DFARS) provisions or clauses stated herein shall apply to this solicitation. Provisions and clauses incorporated in this RA by reference have the same force and effect as if they were given in full text. Therefore, the offeror shall comply with these provisions and clauses as applicable. The term “solicitation” or “solicitation package” refers to the cumulative collection of documents to include the announcement, attachments, exhibits, specifications, plus any other documents or references added by amendment to this announcement or placed on the FTTS ACTD web page for solicitation purposes. The Research Announcement itself includes a required Scope of Work (SOW) with attachments. The Contract Data Requirements List (CDRL) is at Exhibit A.

b. Although this requirement addresses two vehicle types, **a separate proposal for each vehicle type must be submitted, and separate awards will be made for the MSV and UV.** Offerors may submit more than one proposal, but each offer must be a complete, stand-alone proposal covering all solicitation requirements. Offerors’ initial proposals must be comprehensive, fully responsive to the information requested in the solicitation, and reflect the offeror’s best prices.

c. It is the Government’s intention to award Section 845 Other Transaction Agreements, and/or FAR based contracts to perform the M&S portions of the attached Scope-of-Work. Initial awards will be only for performance of the M&S portions of the SOW, as identified by the SOW matrix. The portions of the SOW dealing with the Demonstration phase of the overall program (see matrix) will only be performed by those chosen in the down-select competition referred to in Section 1 above. In the competition that is covered by this announcement, i.e., the M&S phase, the Scope-of-Work is applicable to all awards. Any exceptions taken to the announcement, attachments, specifications, or other solicitation terms, conditions, or documents must be fully explained; however, any such exceptions may be grounds for the Grants/Contracting Officer to reject the proposal, before initial evaluation, from further consideration in the source selection process.

d. Selection of the successful Contractor(s) shall be made following an assessment of each proposal against the research announcement requirements/objectives with the evaluation criteria. The Government does not intend to open discussions with the offerors regarding their proposals. However, the Government reserves the right to open discussions after receipt of proposals if determined necessary by the Grants/Contracting Officer. If the Government elects to hold discussions with the offerors, the Government will not engage in discussions under the Technical Area Element 1, Vehicle System Capabilities, because this element represents a

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candidate technology solutions' test wherein the offerors will be evaluated on the basis of initial proposals as submitted (See paragraphs 9.1.1 and 10.3.1, Element 1).

**4. Submission Eligibility**

Proposer eligibility is extended to any qualified responsible offeror, who must be a qualified U.S. contractor [See paragraph 10.1(i)], with the required capability and security clearance levels to perform the requirements specified in this announcement. Agreements/contracts will only be awarded to Contractors that the Grants/Contracting Officer determines to be responsible, that is, those who can satisfactorily perform the necessary tasks and delivery of the required items on time. In order to qualify as sources for this acquisition, prospective offerors must be able to demonstrate that they meet standards of responsibility set forth in FAR 9.104-1 and FAR 9.104-3(b). In addition, the Government may assess the offeror's financial and management capabilities to meet the solicitation requirements. Accordingly, the Government reserves the right to reject an offeror who cannot satisfy the Government's requirements as set forth in this RA. The Government reserves the right to conduct a Pre-Award Survey on any or all offerors (or their significant subcontractors, which is defined as any subcontract dollar value in excess of \$500,000 or if the subcontracted work is critical to the whole) to aid the Grants/Contracting Officer in the evaluation of each offeror's proposal and ensure that a selected Contractor is responsible. No award can be made to an offeror who has been determined to be not responsible by the Grants/Contracting Officer.

**5. Funding**

This research announcement is anticipated to result in multiple awards for a performance period of 9 (nine) months for the initial M&S. TACOM expects that the Government's total costs for the initial M&S will not exceed the maximum budgetary estimate of \$12,150,000 for all agreements/contracts awarded. It is anticipated that some agreements/contracts will be incrementally funded. The funding schedule for the initial M&S is \$11,021,000 for FY04 and \$1,129,000 for FY05. Offerors are cautioned that only a warranted Grants/Contracting Officer can obligate Government funds and that no contractual commitments exist unless and until they have been received from the Government in writing, in the form of a signed Section 845 Other Transaction or FAR contract.

**6. Requirements**

The U.S. Army Tank-automotive and Armaments Command is soliciting proposals for work described in the SOW and its attachments.

**6.1 Milestones**

**In Process Review (IPR): 45 days after contract award**

**PDR: 90 days after contract award**

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**IPR:** 45 days after PDR

**CDR:** 8 (eight) months after contract award

**Down select:** 30 days after CDR

**6.2 Reporting Requirements:** The following reporting requirements should be included in your cost proposal.

**6.2.1 Program Plan.** On or before 30 days after the effective date of the agreement/contract the recipient must submit to the Government one copy of their Program Plan as described in paragraph C.1.2 of the SOW, entitled "Program Plan".

**6.2.2 Interim/Final Report.** Within 5 (five) calendar days after CDR, the recipient must submit an Interim Report, which includes the contents listed at Attachment 17 of the SOW. The original must be submitted to the Grants/Contracting Officer. (More details are provided at paragraph C.6.1 in the SOW)

## **7. Proposed Award Type**

It is the Army's intent to enter into multiple agreements/contracts based on the availability of funds. Your proposal must identify whether you are proposing to enter into an 845 Prototype Other Transaction, or a FAR based contract, but the type of arrangement proposed will not be considered in the overall evaluation. All resultant awards will include terms and conditions, the SOW with applicable attachments as contained herein, and would incorporate any clarifications and the results of negotiations if held.

(1) To be considered for award of an 845 Other Transaction, you must have at least one nontraditional defense contractor participating to a significant extent or at least one third of the total cost is paid out of funds provided by non-Federal parties to the transaction. Cost sharing generally should consist of labor, materials, equipment, and facilities costs (including allocable indirect costs). You should identify the type and amount of any cost share. An explanation of valuation must be included as part of your cost proposal. (See paragraph 9.1.2)

(2) If proposing an OT, provide with your proposal a justification to include analysis (approximately one page) detailing why your proposed type of instrument is appropriate for your project, what you anticipate to be different from a FAR based contract, and provide the specific draft provisions unique to your proposal.

## **8. Proposal Preparation/Submission**

### **a. Preparing the proposal**

(1) Offers must include all information required by this solicitation. Proposals sent in response to this announcement must be in English and in U.S. Dollars.

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(2) The first page of the proposal must show:

(i) The research announcement number; W56HZV-04-Q-RA01

(ii) The name, address, and telephone and facsimile numbers of the offeror (and electronic address if available);

(iii) A statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation and agreement to furnish any or all items upon which prices are offered at the price set opposite each item;

(iv) Names, titles, and telephone and facsimile numbers (and electronic addresses if available) of persons authorized to negotiate on the offeror's behalf with the Government in connection with this solicitation; and

(v) Name, title, and signature of person authorized to sign the proposal. Proposals signed by an agent shall be accompanied by evidence of that agent's authority, unless that evidence has been previously furnished to the issuing office.

(3) The offeror must indicate whether this, or a related proposal, has been offered to, or is under consideration by, any other Government Agency. You must include your Commercial and Government Entity (CAGE) code, Taxpayer Identification Number (TIN), Data Universal Numbering System (DUNS) number and Central Contractor Registration (CCR) number in your proposal cover letter, if available. You should also identify whom we should contact in the event any questions arise during proposal evaluation. Please include a telephone number, a data-fax number, and an e-mail address for both a contracting and technical point of contact.

(4) Your proposal must be clearly and concisely written, indexed, and logically assembled. The proposal must contain three distinct sections consisting of (i) Technical (ii) Cost information and (iii) Certifications/Representations. Pages of each section of your proposal should be consecutively numbered. Each section shall be formatted in the following manner: (a) Title Page, (b) Table of Contents with a listing of Tables and Figures and (c) the technical, cost, or certifications/representations information associated with your effort. The technical information should be submitted in Microsoft (MS) Word or be MS Word compatible. The cost information should be submitted using Microsoft Excel or compatible and include all formulae, macro, and format information. The certifications/representations fill-ins should be submitted in the form provided, all other certifications/representations information should be submitted in MS Word or be MS Word compatible. Additional proposal content information is provided below in section 9.

(5) Your technical and cost information should reflect that the resultant agreement/contract will require a minimum of one (1) trip to TACOM, Warren, Michigan during the course of performance. Agreement/Contract reporting requirements will include program

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plan, and an interim technical report. You should identify the type of contractual instrument you would consider appropriate for performing the attached SOW and attachments. Selection of agreement/contract type is a Grants/Contracting Officer determination: the Government reserves the right to make the final decision regarding the most appropriate agreement/contract type for each project during our evaluation of proposals that are selected for award. We may conduct negotiations with an offeror regarding alternative contract types, or we may embody our recommended contract type in the form of an agreement or contract forwarded to the offeror for review and signature, if no negotiations are conducted with that offeror.

**b. Submission, modification, revision, and withdrawal of proposals**

(1) Offerors are responsible for submitting proposals, and any modification, or revisions, so as to reach the Government office designated in the solicitation by the time specified in the solicitation.

(a) Any proposal, modification, or revision received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Grants/Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and --

There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or

(b) However, a late modification of an otherwise successful proposal that makes its terms more favorable to the Government will be considered at any time it is received and may be accepted.

(c) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(d) If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the office designated for receipt of proposals by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation, the time specified for receipt of proposals will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

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(2) Proposals may be withdrawn by written notice received at any time before award.

(3) Security Note: If you choose to password-protect access to your offer, you must provide the password to TACOM at least ten days prior to submitting the protected file. Contact either or both buyers identified in Section 12 to arrange a means of providing the password. Passwords used only for the purpose of write protecting files need not be provided.

(4) If any portion of a proposal received by the Grants/Contracting Officer is unreadable, the Grants/Contracting Officer shall immediately notify the offeror and permit the offeror to resubmit the unreadable portion of the proposal. The method and time for resubmission shall be prescribed by the Grants/Contracting Officer after consultation with the offeror, and documented in the file. The resubmission shall be considered as if it were received at the date and time of the original unreadable submission, provided the offeror complies with the time and format requirements for resubmission prescribed by the Grants/Contracting Officer.

(5) Offerors shall make every effort to ensure that their electronic offer is virus-free. Offers (or portions thereof) submitted which do reflect the presence of a virus, or which are otherwise rendered unreadable by damage in either physical or electronic transit, shall be treated as "unreadable" per paragraph (f) above.

(6) You must submit your offer and any supplemental information (such as spreadsheets, backup data, and technical information), via paperless using CD ROM.

(7) Files readable using these Office XP or Microsoft\* 97 Office Products (TACOM can currently read OFFICE 97\* and lower.): Word, Excel, Powerpoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files are unacceptable.

(a) The software application, and version, that you used to create each file submitted, must be identified.

(b) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(c) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic offer and be accessible offline.

**NOTE: (Hyperlinks): Documents (submitted using any of the above formats) must not contain active links (hyperlinks) to any other documents that are not contained in the proposal. This includes links to live Internet web sites or web pages. All linked information must be contained within your electronic offer and be accessible offline.**

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(8) Offerors shall label all submitted CD ROMs with the Research Announcement Number W56HZV-04-Q-RA01, closing date, and the offeror's name and address and contact phone number. Exterior mailing envelopes containing must be addressed to:

US Army Tank-automotive and Armaments Command  
Acquisition Center  
Bid Lobby - Building 231, AMSTA-AQ-AMAD  
6501 East 11 Mile Road  
Warren, MI 48397-0001

(9) Exterior mailing envelopes also must show the time and date specified for receipt, the Research Announcement Number W56HZV-04-Q-RA01, and the name and address of the offeror. Each envelope should contain only one offer. Offerors using commercial carriers, including any service other than United States Postal Service Mail, should ensure that the proposal is marked on the outermost wrapper with the preceding information. Offers delivered by commercial carriers or services must be submitted in accordance with the hand-carried offers instructions in paragraph (3) below.

(10) In the event you are submitting more than one offer in response to this RA, you MUST place each offer/submission on its own set of CD ROMs. Multiple offers/submissions must be placed on a different set of CD ROMs. You must also submit only one offer/submission per mailing envelope. If you will be sending CDs, by any method other than US Postal Service, see the "hand-carried offers" paragraph below for delivery instructions.

(11) Hand-carried Offers (Includes offers delivered by commercial carriers or services other than US Postal Service Mail): Hand-carried offers must be delivered to the TACOM Receiving Dock in Building 249. Directions to TACOM: From Van Dyke Avenue, travel westbound on 11 Mile Road; enter the first Arsenal gate immediately west of the railroad tracks on the north side of the street. Take an immediate right and follow security officer directions to the Receiving Dock in Building 249. The driver may need to obtain a visitor's badge, and must be a US citizen. The Government will take delivery of the hard-carried offer in Building 249, and Government personnel then will be responsible to forward the package to the Bid Lobby address in Building 231.

(a) Hand-carried offers shall be addressed to:

US Army Tank-automotive and Armaments Command  
Acquisition Center  
Bid Lobby - Building 231, AMSTA-AQ-AMAD  
6501 East 11 Mile Road  
Warren, MI. 48397-0001

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(b) Offers shall not be addressed to an individual buyer, the technical POC or any other person. All offers must be addressed to the Bid Lobby at the above address.

(c) Offerors must ensure that the commercial carrier they use has a tracking system that can provide documentation of the date and time of delivery to the Government. For hand-carried offers delivered by other than a commercial carrier, the offeror must ensure that the delivery person obtains a signature from Receiving Dock personnel on a receipt that shows the date and time of delivery to the Government. The delivery person must provide the receipt since Receiving Dock personnel do not have them.

(d) Packages must be delivered to Building 249 between the hours of 8:00 am and 3:00 p.m. local (Eastern Daylight) time.

(12) All proposals must be received by **[20 Aug 2004]** at 3:00 PM Eastern Daylight Time (EDT). This date may be changed or cancelled. Potential offerors should monitor the FTTS ACTD home page at <http://Contracting.tacom.army.mil/research/fts/fts.htm> for possible changes. Proposals received after the cutoff date and time specified may be returned without consideration.

(13) An additional copy of your cost proposal shall be submitted to your cognizant Defense Contract Management Office. Offerors are hereby notified that electronic copies must be identical; the Government is not responsible for identifying inconsistencies between two versions. Offerors who include information that they consider proprietary shall clearly delineate this restriction on both the title page and on each page containing information they wish to restrict. Proposals must not contain any classified data. Print image is not acceptable. Proposals may be submitted in compressed form using self extracting files. Please number all the pages of your proposal consecutively.

## **9. Proposal Content**

**NOTE: In the event your proposal contains any proprietary data or information, you must mark your proposal as follows, to put Government reviewers on proper notice. The procedure is as follows: First, mark the title page of your proposal with the following legend:**

“This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used or disclosed—in whole or in part—for any purpose other than to evaluate this proposal. If, however, an agreement/contract is awarded to this offeror as a result of—or in connection with—the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract or agreement. This restriction does not limit the Government’s right to use information contained in this data if it is

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obtained from another source without restriction. The data subject to this restriction are contained in sheets *[insert number or other identification of sheets]*; and”

**Mark each additional sheet of data you wish to restrict with the following legend:**

“Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.”

9.1 The FAR provision at 52.215-1, Instructions to Offerors -- Competitive Acquisition (Jan 2004) Alt II (Oct 1997) applies to this solicitation. Proposals shall be submitted in the English language and shall be submitted in three separate electronic volumes, for Government review. Each electronic volume should be submitted on a separate CD. The offeror's proposal shall have print no smaller than pica type, printable on standard eight and one-half (8 1/2) by eleven (11) inch paper. Each electronic volume shall be clearly labeled as:

VOLUME NO.	CONTENTS	NO. OF COPIES
Volume I	Technical Proposal	3 identical Electronic copies (3 CDs)
Volume II	Cost Area Proposal	3 identical Electronic copies (3 CDs)*
Volume III	Certification/Representations	3 identical Electronic copies (3 CDs)

\* Also see paragraph 9.1.2(g) which requires an additional copy

**9.1.1 Technical Proposal (Volume I)**

**Element 1 - Vehicle System Capabilities:** The offeror shall provide the following:

(The offeror's proposal in response should not exceed 3 pages for each of the eight capabilities listed below) Based on Program Objectives, the following are the key system capabilities, as defined in Attachment 3 and the vehicle performance specifications, which the Government seeks to achieve and demonstrate under the program:

1. Distribution
2. Maintainability
3. Survivability
4. Operational range
5. Mobility
6. Network Centricity
7. Deployability
8. Force Sustainment

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For each of the above eight capabilities, the offeror shall provide the following:

Identify three candidate technology solutions which the offeror considers to offer high potential for achieving threshold or objective performance specification requirements (UV and Companion Trailer or MSV and Companion Trailer). Identify and discuss the basis for the Technology Readiness Level (TRL) for each candidate technology. Provide a comparative analysis and discussion of the likelihood of these candidate technology solutions to achieve threshold or objective requirements for both the ACTD Demonstration phase of the program and by 2010. Also discuss the impacts of the candidate technology solutions on the other seven key system capabilities.

**Element 2 - Systems Engineering Approach:** The offeror shall provide the following:

a. (The offeror's proposal in response to this paragraph should not exceed 15 pages) Describe how your systems engineering approach will satisfy the SOW (C.1 through C.8.1) and all attachments (Attachments 1-18).

b. (The offeror's proposal in response to this paragraph should not exceed 5 pages excluding the actual milestone schedule document). A detailed program schedule outlining events and milestones to successfully achieve requirements for both the modeling and simulation and hardware demonstrator phases of the program. Events and milestones shall include, as a minimum:

- (1) M&S Award
- (2) M&S Activity
- (3) PDR
- (4) M&S Activity
- (5) CDR
- (6) Interim Report/Delivery
- (7) Downselect Proposal
- (8) Demonstrator Award
- (9) Post CDR M&S
- (10) Demonstrator Build
- (11) Demonstrator Test
- (12) Military Utility Assessment
- (13) Final Report/Delivery

**Element 3 - Modeling and Simulation:** (The offeror's proposal in response to this paragraph should not exceed 10 pages).

The offeror shall provide the following:

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Describe the modeling and simulation capabilities and experience of the offeror and key subcontractors with respect to weight analyses (curb weight, GVW, and GCVW), solid model concepts, and models and simulations that address MSV or UV mobility, dynamics, propulsion, material handling, transportability, operational effectiveness, cost analysis, pit-stop design, structural integrity, survivability and maintainability. Identify your capabilities in terms of software and hardware for modeling and simulation. For each instance of modeling and simulation experience, specifically provide:

- (a) Customer
- (b) Contract Number
- (c) Contract Type
- (d) Description of the modeling and simulation scope of work requirements;
- (e) Discussion of similarities between the modeling and simulation performed under the contract and modeling and simulation contemplated by the offeror under the scope of this RA;

**Element 4 - Demonstrator Fabrication and Testing:** (The offeror's proposal in response to this paragraph should not exceed 7 pages).

Consistent with the offeror's program/milestone schedule provided under the Systems Engineering Element above, the offeror shall describe its proposed approach and capabilities for providing suitable facilities/capabilities to fabricate, test, and support Demonstrator hardware. Specifically, the offeror's plan shall include:

- (a) Significant equipment and tooling (to include present availability or acquisition plans, and suitability)
- (b) Manpower required (including present availability of manpower or specific plans for obtaining manpower, and suitability)
- (c) Test Facilities to be employed (to include a discussion of both the availability of test facilities or acquisition plans, and the suitability of these facilities for purpose of demonstrator testing).

#### **9.1.2 Cost Proposal (Volume II)**

a. The **cost proposal** has no recommended page limit. Cost proposals should include supporting detailed cost data by element, including any subcontractor cost data. This data shall be provided for the total cost of the effort, the Government share, and the Contractor's share, if any. A cost sharing arrangement is not a consideration for award as a result of this research announcement. However, if your offer is based on a cost sharing arrangement, describe in detail the cost sharing arrangement proposed, including its nature, amount and accounting treatment. Cost proposals should include the costs incurred by the offeror given the technical approach, irrespective of cost sharing. Proposals should contain sufficient information regarding the resources offered so that an evaluation of their availability, timeliness and control may be made.

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Each offeror's proposal is presumed to represent their best effort to respond and any apparent inconsistency between promised performance and cost must be explained. Further, any significant inconsistency, if unexplained, raises a fundamental question as to the offeror's understanding of the objectives and requirements and of their ability to perform the effort. Any type of cost/price proposals including cost reimbursable and fixed-price will require submittal of detailed costs for the items listed below in paragraph d.

b. **Realism and Reasonableness:** The consistency of the proposal cost data with the offeror's Technical Volume reflects on the offeror's understanding of the work required and the offeror's ability to perform according to the scope of work for the proposed cost amounts. Any apparent inconsistency between the promised performance and cost must be explained. The offeror's cost volume shall also identify: (a) any judgmental characteristics applied and the mathematical or other methods used in the estimate and (b) the nature and amount of any contingencies or adjustments included in the proposed cost amounts.

c. Offerors are to submit all cost data in electronic spreadsheet format. Submitted spreadsheet files shall contain all formulas, computations, or equations used to compute the proposed amounts. Print image files, or files containing only values, are not acceptable. If a particular table takes more than one page for printout, the offerors shall ensure that the row with the column titles and the column with the cost element's names shall appear on each page of the printout. The offeror's name, Government solicitation number and date of submission are also to be shown on each page.

d. Your cost proposal must contain the following:

(1) **Direct Labor hours (prime):** Provide the number of labor hours for each labor category that is dedicated to the project as direct labor. Show direct labor hours by the appropriate direct labor category you propose. Include supporting documentation showing the development and rationale for the proposed hours. Show the total proposed direct labor costs. This should be a time-phased breakdown of labor hours and cost by appropriate major labor categories. Show the direct labor rates used in the time-phased breakdown, by labor category. Fully explain the basis of the proposed direct labor rates and any escalation used.

(2) **Direct Labor hours (subcontractors):** For subcontracted labor include services to be performed by other than the offeror, in accordance with the offeror's requirements. If there are any subcontractors, whose direct labor forms a part of the labor cost, the offeror shall provide cost data from the subcontractor equivalent to that required of the offeror. If the prospective subcontractor is unwilling to provide such information to the offeror, the data may be submitted directly to the buyers listed in section 12 below. The same kind of cost data shall be provided for inter-organizational transfers, regardless of dollar value, except the offeror need not provide its evaluation of such cost data.

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(3) Cost for travel funds must be related to the needs of the project. Other Direct Costs: List all other costs which are not otherwise included in the categories described above (such as, computer and consultant services) providing the basis for the proposed price.

(4) Indirect Costs: The method of computation and application of indirect costs will provide a basis for evaluation of the reasonableness of proposed rates and rates used. Show the proposed amounts for burden, including fringe benefits, if appropriate. The proposed material overhead, if appropriate, should be shown separately. For General and Administrative (G&A) costs, show the proposed allocation base and proposed G&A amount. If the award of an Agreement/Contract will have a significant impact upon the offeror's business volume, the effects of those changes upon the pool and bases are to be identified and discussed.

(5) Facilities Capital Cost of Money: If the offeror elects to claim Facilities Capital cost of Money (FCCM) as an allowable cost, the offeror must show the calculation of the proposed amounts. A breakdown of the net book value of land, buildings and equipment must be included in the proposal. Show the Treasury Rate used to develop the amount.

(6) Profit / Fee: The offeror shall identify the amount proposed for profit or fee. However, fee is not allowed for cost sharing 845 OTAs.

e. Cost Accounting System: The offerors are to provide evidence that its accounting system is capable of tracing and segregating cost data in sufficient detail to administer a cost reimbursement-type agreement/contract. This evidence may include a letter from either DCMA or DCAA stating that the offeror has an acceptable accounting system for this type of agreement/contract. In those cases where the offeror does not currently have a DCMA or DCAA approved accounting system, the offeror shall describe what action it has taken to obtain DCMA or DCAA approval of its accounting system prior to agreement/contract award.

f. Costs and all elements of cost shall be stated in U.S. Dollars for both the prime contractor and any potential subcontractors. Offerors not located in the United States shall state the exchange rate used to convert their currency to U.S. dollars. If a particular table takes more than one page for printout, the offeror shall ensure that (i) the row with the column titles and the column with the cost element name (ii) research announcement number and (iii) date of submission shall be shown on each page.

g. In addition to the CD copies submitted to TACOM, the offeror shall concurrently submit a copy of their cost proposal to your cognizant DCMAO office.\* The offeror shall provide notification within their proposal as to which office/agency this information was sent along with that office/agency Point of Contact, phone number and e-mail address.

\* (see paragraph 9.1)

These instructions are not intended to be restrictive or all inclusive. What matters is that enough information is provided to allow the evaluators to understand how the proposer plans to use the

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requested funds if an agreement/contract is awarded. Offerors are encouraged to submit any other costs and financial information considered helpful in the evaluation of their cost proposal.

**9.1.3 Certifications/Representations/Contract Formation (Volume III):**

a. The Certifications/Representations with all fill-ins completed, to include a cover page signed by a person authorized to sign proposals on behalf of the offeror (See Exhibit B).

b. Offerors who are considered to be a large business as defined by the North American Industry Classification System (NAICS) code applicable to this solicitation, and are proposing a FAR-based contract, shall submit an acceptable subcontracting plan in accordance with Department of Defense FAR Supplement (DFARS) 252.219-7003. The NAICS code for this acquisition is 541330 and the small business size standard is \$23M. (See paragraph 10.3.3)

c. A list of any exceptions the offeror takes to any term, condition or requirement contained in the solicitation and the basis for each exception. Offerors are cautioned to consult with the Grants/Contracting Officer by contacting the buyers listed in paragraph 12, before submitting an offer that takes exception to any term or condition of this solicitation.

d. Identify any restricted intellectual property (IP) rights as defined in DFARS Part 227, regarding IP deliverables. (See paragraph 11(c)).

**10. Source Selection Process, Basis of Award and Evaluation Criteria**

**10.1 Source Selection Process:**

a. This is a competitive procurement that will result in a "Best Value" selection using a "tradeoff" process. Proposals will be evaluated under formal source selection procedures. The Government will select for award offerors whose proposals represent the best overall value to the FTTS ACTD program. The objective of the evaluation is to select sources offering the optimal balance of technical capability and risk for timely achieving program objectives at a reasonable, realistic, and affordable cost. It is the Government's intention to make three awards for each vehicle type (three awards for the MSV; three awards for the UV) to maintain competition throughout the M&S phase of the program. However, the Government reserves the right to make less than three awards for either vehicle type, when it is determined to be in the best interest of the Government.

b. The Government may reject any proposal which:

(1) Merely offers to perform work according to the RA terms or fails to present more than a statement indicating its capability to comply with the RA terms without support and elaboration as specified in Section 8 of the solicitation; or

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(2) Reflects an inherent lack of technical competence or a failure to comprehend the complexity and risks required to perform the RA's requirements due to submission of a proposal which is unrealistically high or low in Cost and/or unrealistic in terms of technical or schedule commitments; or

(3) Contains any unexplained significant inconsistency between the proposed effort and Cost, which implies the offeror has (a) an inherent misunderstanding of the scope of work, or (b) an inability to perform the resultant contract.

(4) Is unbalanced as to costs. An unbalanced offer is one, which is based on Costs significantly high or low for one given period versus another period. There must be a direct relationship between the effort expended and its Cost for each given period; or

(5) Fails to meaningfully respond to the Proposal. Preparation Instructions are specified in Sections 8 and 9 of the solicitation.

c. The Government does not intend to open discussions with the offerors regarding their proposals. However, the Government reserves the right to open discussions after receipt of proposals if determined necessary by the Grants/Contracting Officer.

d. During the source selection process, the Government will assess the proposal risks of each offeror's technical proposal. Proposal risks are those risks associated with an offeror's proposed approach in meeting the Government's requirements. Proposal risk is assessed by the evaluators and is integrated into the rating of the Technical Area.

e. Clarifications, communications, competitive range determinations, and discussions/negotiations, as defined at FAR 15.306, will be conducted as needed prior to award.

f. At the conclusion of discussions, if held, each offeror still in the competitive range will be given an opportunity to submit a final proposal revision. The contracting officer will establish a common cut-off date only for receipt of final proposal revisions. Requests for final proposal revisions shall advise offerors that the final proposal revisions shall be in writing and that the Government intends to make award without obtaining further revisions.

g. Notices to unsuccessful offerors, and pre-award and post-award debriefings, will be provided in accordance with FAR 15.503, 15.505 and 15.506, respectively. When the exclusion or elimination of a proposal is based on a non-responsibility determination, the Grants/Contracting Officer will state the bases for the determination.

h. The Grants/Contracting Officer will only award to responsible offeror(s) (per FAR 9.104) who have an accounting system appropriate for the type of financing set forth in the award document, who are a qualified United States contractor, have the required security clearance levels (see paragraph i below), plus fully and unconditionally comply with the Contract Security Classification Specification (DD Form 254) at Exhibit C.

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i. The following security requirements apply to the extent that any resultant OT or contract involves access to information classified "Confidential," "Secret," or "Top Secret." The Contractor shall comply with --

(1) The Security Agreement (DD Form 441), including the *National Industrial Security Program Operating Manual* (DoD 5220.22-M); and

(2) Any revisions to that manual, notice of which has been furnished to the Contractor.

Some information necessary for performing the SOW is unclassified, but marked "For Official Use Only (FOUO)" and withheld from public distribution in accordance with DoD Directive 5230.25. That information will only be provided to qualified US contractors in accordance with the DoD Directive. See <http://www.dlis.dla.mil/jcp/> for information on how to become certified as a Qualified US Contractor. The DoD Directive 5230.25 and the DD Form 254 apply.

The Contractor agrees to insert terms that conform substantially to this language in all sub-recipient agreements/subcontracts under the OT/contract that involve access to classified information.

NOTE: The clause at FAR 52.204-2, plus other DFARS security related clauses, shall apply to any resultant OT/contract.

**10.2 Basis of Award:**

The Government will select for award that proposal or proposals which represent the best value considering the technical and cost evaluations, program balance, and technical diversity. There are two evaluation areas: (i) Technical and (ii) Cost. The Technical area is significantly more important than the Cost area. Notwithstanding this fact, no technical proposal, no matter how highly rated, will be considered for award if it is unaffordable. Within the Technical Area, the Vehicle System Capabilities element (Element 1) is significantly more important than each one of the other three technical elements (Elements 2, 3 and 4) individually. The Systems Engineering Approach element (Element 2), Modeling and Simulation element (Element 3) and Demonstrator Fabrication and Testing element (Element 4) are of equal importance. Notwithstanding the Technical Area's importance relative to cost, cost may play a deciding role in decisions for multiple awards to achieve program balance. For example, a higher technically rated proposal, but higher cost proposal may not be selected in favor of several lower technically rated, but lower cost proposals. Additionally, technical diversity may play a deciding role in decisions for multiple awards. For example, several highly rated technical proposals which are highly similar may not be selected in favor of other lower rated but dissimilar proposals to achieve technical diversity. When technical evaluations are essentially equal, cost to the

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Government may be controlling in determining the successful offerors, subject to program balance and technical diversity.

**10.3 Evaluation Criteria:**

**10.3.1** The Technical Area includes four Elements which will be evaluated as follows:

**Element 1. Vehicle System Capabilities:**

The Vehicle System Capabilities Element will evaluate the proposal risk probability (including advantages and disadvantages) that the offeror will successfully and timely perform contract requirements based on the following:

The offeror's knowledge of candidate technology solution alternatives and the basis of their Technology Readiness Levels, in the eight key systems capability areas, as demonstrated by the offeror's logic and rationale in performing a comparative analysis and discussion of the three identified candidate technology solutions; and how the solutions can be expected to meaningfully contribute toward achievement of the threshold/objective requirements for that individual capability during the ACTD Demonstration phase of the program and by 2010.

The Government's assessment will also consider the net contributory impacts (positive and negative) of the offeror's selected candidate technologies on the achievement of threshold and objective requirements in the other seven key systems capability areas. Candidate technology approaches which are credibly expected to result in achievement of objective requirements will be evaluated more favorably than approaches which are credibly expected to result in achievement of threshold requirements.

**Element 2. Systems Engineering Approach:**

The Systems Engineering Approach Element will evaluate the proposal risk probability (including advantages and disadvantages) that the offeror will successfully perform the Scope of Work requirements (including RA Attachments) based upon an assessment of:

- a. The thoroughness, clarity, precision, feasibility and practicality of the offeror's System Engineering Approach to timely achieve program objectives and meet requirements.
- b. The thoroughness, clarity, precision and credibility of the offeror's detailed program schedule to timely satisfy program objectives.

**Element 3. Modeling and Simulation:**

The Modeling and Simulation Element will evaluate the proposal risk probability (including advantages and disadvantages) that the offeror will successfully perform the Scope of Work requirements for Modeling and Simulation based upon the offeror's (and any proposed

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subcontractors) relevant capabilities for, and experience with, the complete range of modeling and simulation tools which may be utilized during contract performance. Proposed prime offeror or subcontractor Modeling & Simulation relevant experience/capability which is not reflected in, or is inconsistent with, the offeror's Cost proposal, will be discounted in whole or in part by the Government.

**Element 4. Demonstrator Fabrication and Testing:**

The Demonstrator Fabrication and Testing Element will evaluate the proposal risk probability (including advantages and disadvantages) that the offeror will successfully perform the Scope of Work requirements, consistent with the offeror's proposed detailed program/milestone schedule, based upon an assessment of the offeror's proposed approach to providing suitable facilities/capabilities to fabricate, test, and support Demonstrator Hardware.

**10.3.2 Cost Area**

The Cost area shall be evaluated as an assessment of the most probable cost to the Government to include an evaluation of the reasonableness and realism of your proposed cost to meet the objectives and requirements in accordance with your proposed technical approach. This evaluation will reflect consideration of the technical risks inherent in the proposed approach as reflected in the technical evaluation and will represent the cost the Government evaluators believe will most probably be incurred by the offeror, given the technical approach. A cost sharing arrangement is not a consideration for award as a result of this research announcement. The cost/price analysis will be performed in accordance with FAR 15.404, FAR Part 31, and FAR Part 30 if applicable. A cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person in the conduct of competitive business. Cost realism and analysis is discussed in FAR 15.404-1(d). Finally, cost may be controlling in circumstances where two or more proposals are otherwise adjudged equal.

**10.3.3 Certifications/Representations/Contract Formation**

A subcontracting plan must be received and approved prior to the award of a FAR based contract, for any contractor required to submit a subcontracting plan. (See paragraph 9.1.3(b)).

**11. General Terms and Conditions**

a. This research announcement is an expression of interest only and does not commit the Government to pay any proposal preparation costs for responding. The Government will not incur any costs for responses submitted. The cost of preparing proposals in response to this announcement is not an allowable direct charge to any resulting agreement or any other contract, but may be an allowable expense to normal bid and proposal indirect costs.

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b. All technical discussions and/or clarifications that may be necessary regarding this acquisition must be directed to the buyers listed below.

c. The Government intends to follow DFARS Part 227 with regard to intellectual property. (See paragraph 9.1.3(d)).

d. Prototype Other Transactions Agreements are subject to the Other Transactions Guide for Prototype Projects, issued by the Office of the Under Secretary of Defense, AT&L. FAR based contracts are subject to the FAR and the DFARS.

e. The Government often employs contractors as system administrators to operate and maintain Government computer systems. These systems include local area networks, web sites, databases, other electronic records, e-mail accounts, other electronic data transfer mechanisms and computer software. The employees of these contracted system administrators sign nondisclosure agreements obligating them not to reveal information contained in files, documents, computers or systems that they administer. However, unless such information is protected in some way, contracted system administrators do have the ability to access such information. Potential contractors as well as any other parties are thus advised to take steps needed to prevent access by contracted system administrators to information submitted electronically to the Government. Absent such steps, it is assumed that contracted system administrators are permitted the capability to access the data. The access will be limited to that which is necessary for the contract system administrator to perform its duties for the Government. The access shall be subject to the condition that third party information is not to be revealed by the contracted system administrator. Before you protect your proposal in any manner, you must e-mail the contracting point of contact listed at the end of the announcement to obtain a decision as to the acceptability of the proposed protection. This e-mail must be received not later than ten (10) calendar days before the closing date. Failure to e-mail within this timeframe to seek acceptance may result in rejection of your offer.

## **12. Points of Contact**

All acquisition correspondence and questions on this announcement should be submitted to Ms. Valerie Pettygrue at [pettygrv@tacom.army.mil](mailto:pettygrv@tacom.army.mil) (586) 574-7239 and Mr. Allen Traciak at [traciaka@tacom.army.mil](mailto:traciaka@tacom.army.mil) (586) 574-7869, or by United States Postal Service mail at the US Army Tank-automotive and Armaments Command, AMSTA-AQ-ABGB/ Mailstop 321, 6501 East Eleven Mile Road, Warren, MI 48397-5000.

\* \* END \* \*