

Subject: MTEC Joint Evacuation and Transport Simulation (JETS) System Solicitation

The Medical Technology Enterprise Consortium (MTEC) is excited to post this announcement for a Request for Project Proposals (RPP) focused on Operational Architectures (system and technical) to Support Military Medical Training Simulations – **the development of architecture models that will be used to guide the construction of integrated simulations and training modules for the Joint Evacuation and Transport Simulation (JETS) system, which is utilized throughout the Department of Defense’s (DoD’s) medical departments.**

The MTEC mission is to assist the U.S. Army Medical Research and Materiel Command (USAMRMC) by providing cutting-edge technologies and effective materiel life cycle management to transition medical solutions to industry that protect, treat, and optimize Warfighters’ health and performance across the full spectrum of military operations. MTEC is a biomedical technology consortium collaborating with multiple government agencies under a 10-year renewable Other Transaction Agreement (OTA), Agreement No. W81XWH-15-9-0001, with the U.S. Army Medical Research Acquisition Activity (USAMRAA). MTEC is currently recruiting a broad and diverse membership that includes representatives from large businesses, small businesses, “non-traditional” government contractors, academic research institutions and not-for-profit organizations.

Recent changes to military doctrine now require a multi-Service/joint response, where many functions will no longer be unique to a particular Service. Therefore, **there is a need to develop an operational infrastructure that provides multi-Service training for joint-Service responses.** The construction of integrated simulations and training modules for the JETS systems is the first step toward a larger effort to integrate several training platforms toward a more standard, interoperable method of instruction with greater accessibility within an integrated and federated DoD Medical Simulation Enterprise.

This RPP is focused on developing operational architectures that will build a construct and flow of the JETS system, where the operations, systems, and capability views are integrated using a single set of documents and diagrams. The prototype Program/Systems architecture must be aligned with the most current Joint Capabilities Integration and Development System (JCIDS) manual, Department of Defense Architecture Framework (DoDAF) and DoDAF Products Matrix. The prototype technical architectures will be used to guide the construction of an integrated System of Systems (SoS) training platform for DoD Global/Joint Patient Movement (GPM/JPM) training purposes.

The JETS SoS must support many access methods (e.g., computer, smart phone, hard-stand training centers, tablet, etc.). The intent is to integrate Training Centers with each other, and with Point of Demand (POD) training, within a medical Synthetic Training Environment (mSTE) that is connected through a DoD training portal. This enables access to training through integrated Live, Virtual, Constructive, Gaming (LVCG) training modalities, that provides value to the User and the DoD. The end-state is a platform delivering effective and integrated Training Center and POD capabilities. Together, they will (i) provide customized training to the User’s when, where, and how they need to conduct training, on a global 24/7/365 basis, and (ii) address the training needs of the individual, team, squad, unit, and multi-units (e.g., mission planning, mission rehearsal, en-route care, patient movement control, logistics, patient hand-off, etc.). The system will provide training of GPM/JPM tasks (e.g., medic, corpsman, flight medic, Aeromedical nurse, Patient Control Cell member, etc.) by flowing simulated patient(s) through the replicated chain of evacuation from Role 1 to Role 4, and the ability to engage in training events with other Government agencies and Coalition Partners.

The work is structured into six, independent phases of work which will be eventually completed for this effort to be successful. The intent of this solicitation is to evaluate and award Phases 1 and 2, therefore all offers submitted under this RPP must propose Phases 1 and 2. The follow-on Phases are provided for context so the Offeror understands the intent of the information generated from Phases 1 & 2. The Offeror does not need to price or

provide details on how they would complete Phases 3-6, but they should describe how their work in Phases 1 & 2 will support the follow on efforts.

Phase 1: Develop prototype knowledge products that will interoperate and integrate with future programs making up the Medical Simulation Enterprise (MSE). Provide the Program/System Architecture views for the Joint Evacuation and Transport Simulation (JETS) Capability Development Document (CDD). Deliverables include integrated and synchronized System Architecture artifacts, that must be aligned with the most current Joint Capabilities Integration and Development System (JCIDS) manual, Department of Defense Architecture Framework (DoDAF) and DoDAF Products Matrix, and defined as required for a Capabilities Development Document (CDD), which include (but may not be limited to): AV-1; AV-2; OV-1; OV-2; OV-4; OV-5A; CV-2; CV-3; CV-6; SV-1; SV-2; SV-3; SV-7; SV-8. These are defined within the DoDAF which is located: http://dodcio.defense.gov/Portals/0/Documents/DODAF/DoDAF_v2-02_web.pdf.

Phase 2: Develop prototype knowledge products that are based on the JETS SoS description, which provides the Program/System Architecture views for a Point of Injury Training System (POINTS) CDD. The prototype assumes the same Support System, and an Operations System adjusted to address Point of Injury (First Responder and Role 1) training. The prototype must be fully integrated, federated and interoperable with the JETS program (backward compatible), and fully capable of integration, federation and interoperation (forward compatible) across future programs making up the MSE. Deliverables include integrated and synchronized System Architecture artifacts, that must be aligned with the most current JCIDS manual, DoDAF and DoDAF Products Matrix, and defined as required for a CDD, which include (but may not be limited to): AV-1; AV-2; OV-1; OV-2; OV-4; OV-5A; CV-2; CV-3; CV-6; SV-1; SV-2; SV-3; SV-7; SV-8.

Phase 3: Deliverables include prototype knowledge products for a complete Capability Production Document (CPD) for JETS Increment I with aligned required and supporting documents according to the current JCIDS Manual, DoDAF and DoDAF Products Matrix.

Phase 4: Deliverables include prototype knowledge products for a complete integrated and synchronized Operational and Technical Architectures for JETS Increment I, which enables JETS Increments II-IV capabilities and enables a positive Milestone B decision. Milestone B is a decision point as outlined in DoD 5000 series acquisition documents which facilitates the movement of a product into engineering and development stage. Specific criteria for the decision is in the referenced document that can be attained on line. The DoD 5000 series acquisition documents are located: <http://bbp.dau.mil/docs/500002p.pdf>.

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Identification of current systems and development of integrated operational, system, and capability views into a functional operational architectural context.

Phase 5: Deliverables include a prototype knowledge product for a complete CPD for JETS Increment II, with required aligned and supporting documents according to the current JCIDS manual and DoDAF. Increase through plug-ins the advent of new applications or technologies that enhance the overall breadth and depth of training.

Phase 6: Deliverables include a prototype knowledge product for a complete integrated and synchronized Operational and Technical Architectures for JETS Increment II which enables JETS Increments III-IV capabilities, and enables a positive Milestone B decision. Provide improvement to current capabilities to incorporate more interchange, interaction, and access modalities.

The six Phases of work are expected to progress over several years. The period of performance of Phase 1 is 6 months. Phase 2 is expected to range between 6-12 months.

The Government intends to solicit MTEC members/teams with expertise in the development of operational architectures and providing Information Technology solutions for military and/or health care systems. Proposals will be evaluated based on the technical and managerial soundness of the methodological approach to satisfy the documentation needs, and the Offeror's relevant past performance experience. This upcoming solicitation is the first Phase toward building a fully integrated training platform that will enhance warrior medic support with timely interjection of training specific to needs and the ability to continually educate and maintain professional skills.

The MTEC plans to use a streamlined, interactive approach for this acquisition. This approach will consist of the following steps:

Step 1: MTEC members who wish to offer a solution to the RPP must submit a **Solutions Brief**. The Solutions Brief will contain the MTEC Offeror's technical concept and approach along with their viability toward the specific effort. To meet the statutory requirement of the Other Transaction authority, Offeror Solutions Briefs will also have to address the significant participation of a Nontraditional Defense Contractor on the team or the willingness to provide 1/3 cost share to the project. In the Solution Brief, it is important to emphasize the processes that will be used to meet the above requirements, the technologies that will be involved, the team and its capabilities to perform the work, the team's military operational knowledge, and team's relevant experience with work similar in scope. Additionally, technology enablers for later stage Phases should be identified if they would play an instrumental role for the approach. Together, the Solution Brief should demonstrate that the team has a suitable plan and the capabilities to reach the targeted outcomes of each Phase.

Step 2: After Government review, MTEC members who have submitted a favorable Solutions Brief will be invited to provide a pitch, either in person or via telecom. During this pitch, the Offeror will be provided an opportunity to discuss its technology and potential solution in more detail. During this time, the Offeror will also be expected to present and discuss rough order of magnitude (ROM) cost and schedule.

Step 3: After Step 2 the government will reevaluate Offerors' based on the RPP criteria. If the Government evaluation team recommends moving forward, the specific MTEC Offeror will be notified and invited to submit a full project SOW and Cost Proposal in accordance with the MTEC Proposal Preparation Guide (PPG).

Because of the nature of the requirements set forth in this RPP, this streamlined, interactive approach is anticipated to be a better means to highlight company methodologies and skills and allow the government to gain a fuller appreciation of the work required to be completed. It provides more freedom and initiative to the Offeror to describe how they would approach and solve such an action. The full description of this contracting approach is included in the RPP.

Responses to this RPP in the form of Solution Briefs are due no later than **June 8, 2017, 12:00pm EDT**.

All Offerors responding to this opportunity are required to be members of MTEC. To join MTEC, please visit <http://mtec-sc.org/how-to-join/>

[How to Join - MTEC](#)

mtec-sc.org

Membership offers many benefits, including: Insight into Government research needs. This helps companies understand opportunities and target Internal Research and Development (IR&D) investments in areas that align with Government needs. Access to...

For more information about the RPP, please visit the [MTEC website](#).

Sincerely,

MTEC Project Team