Request for Project Proposals

Solicitation Number: MTEC-20-10-COVID-19_NETCCN_TATRC
“National Emergency Telecritical Care Network (NETCCN)”

Issued by:
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for the
Medical Technology Enterprise Consortium (MTEC)

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1 Executive Summary

1.1. The Medical Technology Enterprise Consortium
The Medical Technology Enterprise Consortium (MTEC) is an enterprise partnership in collaboration with industry and academia to facilitate research and development activities, in cooperation with the U.S. Army Medical Research and Development Command (USAMRDC) and other DoD agencies in the biomedical sciences (including but not limited to drugs, biologics, vaccines, medical software and medical devices) to protect, treat and optimize the health and performance of U.S. military personnel. MTEC is a nonprofit corporation with the following principal objectives:

(a) biomedical research and prototyping;
(b) exploration of private sector technology opportunities;
(c) technology transfer; and
(d) deployment of intellectual property (IP) and follow-on production.

MTEC is openly recruiting members to join a broad and diverse biomedical consortium that includes representatives from large businesses, small businesses, contract research organizations, “nontraditional” defense contractors, academic research institutions and not-for-profit organizations; for more information on the MTEC mission, see the MTEC website.

MTEC operates under an Other Transaction Agreement (OTA) for prototypes with USAMRDC. As defined in the OTA Guide dated November 2018, a prototype project addresses a proof of concept, model, reverse engineering to address obsolescence, pilot, novel application of commercial technologies for defense purposes, agile development activity, creation, design, development, demonstration of technical or operational utility, or combinations of the foregoing. A process, including a business process, may be the subject of a prototype project. Although assistance terms are generally not appropriate in OT agreements, ancillary work efforts that are necessary for completion of the prototype project, such as test site training or limited logistics support, may be included in prototype projects. A prototype may be physical, virtual, or conceptual in nature. A prototype project may be fully funded by DoD, jointly funded by multiple federal agencies, cost-shared, funded in whole or part by third parties, or involve a mutual commitment of resources other than an exchange of funds.

1.2. Purpose
This solicitation, issued by the MTEC Consortium Manager (CM), Advanced Technology International (ATI), represents a Request for Project Proposals (RPP) for MTEC support of the U.S. Army’s Telemedicine and Advanced Technology Research Center (TATRC). Military relevance is a critical component of the Enhanced White Paper submission. Strategic and tactical oversight for the award(s) supported by this RPP will be provided by the TATRC.
In support of COVID-19 response, the goal of this RPP is to support the rapid development, deployment and testing of the National Emergency Telecritical Care Network (NETCCN) - a cloud-based, low-resource, stand-alone health information management system for the creation and coordination of flexible and extendable “virtual critical care wards.” These high acuity, virtual wards would bring high-quality critical care capability to nearly every bedside, be it healthcare facility, field hospital, or gymnasium.

Based on cellular communication networks, mobile technologies and cloud computing, the RPP will support the extension of high-quality intensive care to traditional (e.g. critical access hospitals and clinics) and non-traditional and temporary healthcare facilities (e.g. field hospitals and gymnasiums) which lack adequate critical care expertise and resources necessary for care of COVID-19-related illnesses.

Through a step-wise approach, this RPP will fund multiple teams consisting of healthcare organizations and technology vendors to rapidly, iteratively and collaboratively prototype, test and refine tele-critical care and data visualization solutions to support local, regional and ultimately national COVID-19 care and situational awareness.

*Note: Pending successful completion of this effort, the Government may issue a non-competitive follow-on production contract or transaction pursuant to 10 USC 2371b section f.
2 Administrative Overview

2.1. Request for Project Proposals (RPP)

Each MTEC Enhanced White Paper submitted must be in accordance with the mandatory format provided in Section 10 of the RPP.

Note that the terms Enhanced White Paper and Proposal are used interchangeably throughout this RPP.

2.2. Proposer’s Conference

The MTEC is pleased to announce that a Proposers Conference will be conducted specific to this RPP, MTEC-20-10-COVID-19_NETCCN_TATRC. The Proposers Conference is a virtual webinar format that provides potential Offerors the opportunity to interact directly with both MTEC and the Military Sponsor related to this specific funding opportunity. The flow of the Proposers Conference is as follows. First, MTEC provides an administrative overview of the solicitation. Second, the Military Sponsor provides an overview of the technical requirements of the
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Number W81XWH-15-9-0001

solicitation. Finally, all attendees are invited to anonymously type in questions into the webinar’s chat function, which are answered verbally and live by the appropriate presenter from MTEC or the Military. We highly encourage anyone interested in this funding opportunity to listen in and/or ask questions. The Proposers Conference typically lasts between 1 and 2 hours.

The Proposers Conference is scheduled to take place **Monday, April 20 at 3:00 PM ET**. Register via the following link: [https://attendee.gotowebinar.com/register/811606013843567631](https://attendee.gotowebinar.com/register/811606013843567631)

2.3. **Funding Availability and Type of Funding Instrument Issued**

The U.S. Government (USG) Department of Defense (DoD) currently has available up to $7 Million (M) FY20 funds for Tasks 1, 2, and 3 of this program. Any potential follow-on funding is subject to availability and is expected to be awarded non-competitively and negotiated based on outcomes, cost sharing, partner matching and estimates for additional study completion.

The anticipated Period of Performance (PoP) for Tasks 1, 2, and 3 is up to 45 days. Dependent on the results and deliverables, additional time may be added to the period of performance for follow-on tasks [e.g., up to 18 months for Tasks 1 – 5].

As of the release date of this RPP, future year Defense Appropriations Bills have not been passed and there is no guarantee that any additional funds will be made available to support this program. The funding estimated for this RPP is approximate and subject to realignment. Funding of Enhanced White Papers received in response to this RPP is contingent upon the availability of federal funds for this program. Award funding will be structured incrementally and based upon completion of Milestones and Deliverables.

2.4. **Acquisition Approach**

It is expected that MTEC will make up to 6 awards to qualified teams to accomplish the statement of work. If a single Enhanced White Paper is unable to sufficiently address the entire scope of this RPP’s technical requirements (outlined in Section 5), multiple Offerors may be asked to work together in a collaborative manner. However, if an optimal team is not identified, then MTEC may make multiple, individual awards to Offeror(s) to accomplish subset(s) of the key tasks.

The Government-selected Awards will be funded under the Other Transaction Agreement (OTA) Number W81XWH-15-9-0001 with MTEC administered by the CM, ATI. The CM will negotiate and execute a Base Agreement with MTEC members (if not yet executed). This Base Agreement will be governed by the same provisions as the OTA between the USG and MTEC. Subsequently, any Enhanced White Paper that is selected for award is expected to be funded through a Research Project Award issued under the Base Agreement. A sample of the MTEC Base Agreement can be found on the MTEC website at [www.mtec-sc.org](http://www.mtec-sc.org).
At the time of the submission, if Offerors have not yet executed a Base Agreement, then Offerors must certify on the cover page of their Enhanced White Paper that, if selected for award, they will abide by the terms and conditions of the latest version of the MTEC Base Agreement. If the Offeror already has executed an MTEC Base Agreement with the MTEC CM, then the Offeror must state on the cover page of its Enhanced White Paper that, if selected for award, it anticipates the proposed effort will be funded under its executed MTEC Base Agreement. Please note that Base Agreements are only issued if an Offeror has been selected for an award; therefore, only those organizations that already have a MTEC award will have a Base Agreement Number.

Offerors are advised to check the MTEC website periodically during the Enhanced White Paper preparation period for any changes to the MTEC Base Agreement terms and conditions as well as clarifications found in Frequently Asked Questions (FAQ) responses.

2.5. MTEC Member Teaming

While teaming is not required for this effort, Offerors are encouraged to consider teaming during the proposal preparation period (prior to submission of Enhanced White Papers) if they cannot address the full scope of technical requirements of the RPP or otherwise believe a team may be beneficial to the Government. MTEC members are encouraged to use the MTEC Database Collaboration Tool. The purpose of the tool is to help MTEC member organizations identify potential teaming partners by providing a quick and easy way to search the membership for specific technology capabilities, collaboration interest, core business areas/focus, R&D highlights/projects, and technical expertise. The Primary Point of Contact for each member organization is provided access to the collaboration database tool to make edits and populate their organization’s profile.

There are two sections as part of the profile relevant to teaming:

- “Collaboration Interests” - Select the type of teaming opportunities your organization would be interested in. This information is crucial when organizations need to search the membership for specific capabilities/expertise that other members are willing to offer.
- “Solicitation Collaboration Interests” - Input specific active solicitations that you are interested in teaming on. This information will help organizations interested in a specific funding opportunities identify others that are interested to partner in regards to the same funding opportunity. Contact information for each organization is provided as part of the member profile in the collaboration database tool to foster follow-up conversations between members as needed.

The Collaboration Database can be accessed via the “MTEC Profiles Site” tab on the MTEC members-only website.

2.6. Proprietary Information
The MTEC CM will oversee submission of Enhanced White Papers submitted in response to this RPP. The MTEC CM shall take the necessary steps to protect all proprietary information and shall not use such proprietary information for purposes other than the evaluation of an Offeror’s Enhanced White Paper and the subsequent agreement administration if the Proposal is selected for award. Please mark all Confidential or Proprietary Information as such. An Offeror’s submission of an Enhanced White Paper under this RPP indicates concurrence with the aforementioned CM responsibilities.

Also, as part of MTEC’s mission to incorporate philanthropic donations, MTEC frequently makes contact with private entities (e.g., foundations, investor groups, organizations, individuals) that award grants or otherwise co-fund research, and/or operates in research areas that are aligned with those of MTEC. These private entities may be interested in reviewing certain Proposals within their program areas, allowing opportunities to attract supplemental funding sources. On your Proposal Cover Page, please indicate your willingness to allow MTEC Officers and Directors access to your Proposal for the purposes of engaging in outreach activities with these private organizations. MTEC Officers and Directors granted Proposal access have signed Non-disclosure Agreements (NDAs) and Organizational Conflict of Interest (OCI) statements. Additionally, these MTEC Officers and Staff represent organizations that currently are not MTEC members, and therefore their parent organizations are not eligible to submit Proposals or receive any research project funding through MTEC. Additionally, all Technical Evaluation Panel participants will agree to, and sign a nonproprietary information and conflict of interest document.

2.7. Offeror Eligibility

MTEC membership is not required for the submission of an Enhanced White Paper in response to this upcoming MTEC RPP. However, membership will be required for Offerors recommended for award. To join MTEC, please visit http://mtec-sc.org/how-to-join/.

2.8. Inclusion of Nontraditional Defense Contractors or Nonprofit Research Institutions

Enhanced White Papers that fail to meet the mandatory statutory conditions with regard to the appropriate use of Other Transaction authority, as listed below, will not be evaluated and will determined ineligible for award. Please see Appendix 4.3 of the Enhanced White Paper template for additional details.

Mandatory statutory conditions (the Offeror shall assert that at least one of the following conditions is met):

(1) There is at least one nontraditional defense contractor or nonprofit research institution participating to a significant extent in the prototype project.

(2) All significant participants in the transaction other than the Federal Government are small businesses (including small businesses participating in a program described under section 9

(3) At least one third of the total cost of the prototype project is to be paid out of funds provided by sources other than the Federal Government.

The Offeror shall submit Warranties and Representations (see Section 10, Appendix 4.3) specifying the critical technologies being offered and/or the significant extent of participation of the nontraditional defense contractor, small business or nonprofit research institution. The nontraditional defense contractor can be an individual so long as he/she has a DUNS Number and meets the requirements in the Warranties and Representations. The significance of the nontraditional defense contractor’s, small business’ or nonprofit research institution’s participation shall be explained in detail in the signed Warranties and Representations. Inadequate detail can cause delay in award.

Per the DoD OT Guide, rationale to justify a significant extent includes:

1. Supplying a new key technology, product or process
2. Supplying a novel application or approach to an existing technology, product or process
3. Providing a material increase in the performance, efficiency, quality or versatility of a key technology, product or process
4. Accomplishing a significant amount of the prototype project
5. Causing a material reduction in the cost or schedule of the prototype project
6. Provide for a material increase in performance of the prototype project

2.9. Nontraditional Defense Contractor Definition

A nontraditional defense contractor is a business unit that has not, for a period of at least one year prior to the issue date of the Request for Project Proposals, entered into or performed on any contract or subcontract that is subject to full coverage under the cost accounting standards (CAS) prescribed pursuant to section 26 of the Office of Federal Procurement Policy Act (41 U.S.C. 422) and the regulations implementing such section.

2.10. Cost Sharing Definition

Cost sharing is defined as the resources expended by the award recipients on the proposed statement of work (SOW). If cost sharing is proposed, then the Offeror shall state the amount that is being proposed and whether the cost sharing is a cash contribution or in-kind contribution (see below for a definition of each); provide a description of each cost share item proposed; the proposed dollar amount for each cost share item proposed; and the valuation technique used (e.g., vendor quote, historical cost, labor hours and labor rates, number of trips, etc.). Cost sharing above the statutory minimum is encouraged if possible, as it leads to stronger leveraging of Government-contractor collaboration.
Cash Contribution

Cash Contribution means the Consortium and/or the Research Project Awardee (or Awardees' lower tier subawards) financial resources expended to perform a Research Project. The cash contribution may be derived from the Consortium’s or Research Project Awardee (or Awardees' subawards) funds or outside sources or from nonfederal contract or grant revenues or from profit or fee on a federal procurement contract.

An Offeror’s own source of funds may include corporate retained earnings, current or prospective Independent Research and Development (IR&D) funds or any other indirect cost pool allocation. New or concurrent IR&D funds may be utilized as a cash contribution provided those funds identified by the Offeror will be spent on performance of the Statement of Work (SOW) of a Research Project or specific tasks identified within the SOW of a Research Project. Prior IR&D funds will not be considered as part of the Offeror's cash.

Cash contributions include the funds the Offeror will spend for labor (including benefits and direct overhead), materials, new equipment (prorated if appropriate), awardees' subaward efforts expended on the SOW of a Research Project, and restocking the parts and material consumed.

In-Kind Contribution

In Kind Contribution means the Offeror’s non-financial resources expended by the Consortium Members to perform a Research Project such as wear-and-tear on in-place capital assets like machinery or the prorated value of space used for performance of the Research Project, and the reasonable fair market value (appropriately prorated) of equipment, materials, IP, and other property used in the performance of the SOW of the Research Project.

Prior IR&D funds will not be considered as part of the Consortium Member's cash or In-Kind contributions, except when using the same procedures as those that authorize Pre-Award Costs, nor will fees be considered on a Consortium Member's cost sharing portion.

If the offer contains multiple team members, this information shall be provided for each team member providing cost share.

2.11. MTEC Assessment Fee

Per Section 3.4 of the Consortium Member Agreement (CMA), each recipient of a Research Project Award under the MTEC OTA shall pay MTEC an amount equal to 1% of the total funded value of each research project award. Such deposits shall be due no later than 90 days after the research project award is executed. Awardees are not allowed to use MTEC funding to pay for their assessment fees.
Additionally, MTEC has established two methods of payment to be made to MTEC surrounding the licensing/commercialization of Intellectual Property developed with funding received from MTEC Research Project Awards:

**Royalty Payment Agreements**

Government-funded research projects awarded through MTEC will be subject to a 10% royalty on all Net Revenues received by the Research Project Award recipient resulting from the licensing/commercialization of the technology, capped at 200% of the Government funding provided.

**Additional Research Project Award Assessment**

In lieu of providing the royalty payment agreement described above, members receiving Research Project Awards may elect to pay an additional assessment of 2% above the standard assessment percentage described in Section 3.4 of the CMA. This additional assessment applies to all research project awards, whether the award is Government funded or privately funded.

### 2.12. Intellectual Property and Data Rights

Intellectual Property (IP) rights for MTEC Research Project Awards will be defined in the terms of an awardee’s Base Agreement and resultant Task Orders. MTEC reserves the right to assist in the negotiation of IP, royalties, licensing, future development, etc., between the government and the individual performers during the entire award period.

The Offeror shall comply with the terms and conditions defined in the Base Agreement regarding Data Rights. It is anticipated that anything delivered under this proposed effort will be delivered to the Government with Government purpose data rights or unlimited data rights unless otherwise asserted in the proposal and agreed to by the Government. Rights in technical data in each Research Project Award shall be determined in accordance with the provisions of MTEC Base Agreement.

The Offeror is required to complete Appendix 4.2. Data Rights of the Enhanced White Paper template to identify any items to be furnished to the Government with restrictions.

### 2.13. Expected Award Date

Offeror should plan on the period of performance beginning May 27, 2020 (subject to change). The Government reserves the right to change the proposed period of performance start date through negotiations via the CM and prior to issuing a Research Project Award.


As the basis of selections is completed, the Government will forward their selections to the MTEC CM to notify Offerors. Proposers will receive a notification letter, delivered by email, from the
MTEC CM of the results of the evaluation. Those successful will move forward to the next phase of the process while those not selected will gain evaluation rationale for non-selection.

3 Enhanced White Paper

3.1. Enhanced White Paper Rationale

The MTEC will use an accelerated approach to award for this RPP. Because of the nature and urgency of the requirements set forth in this RPP, this streamlined approach is anticipated to be a better means to highlight company methodologies and skills required to address the technical requirements described herein. The Enhanced White Paper process requires extremely quick turnaround times by Offerors. The following sections describe the formats and requirements of the Enhanced White Paper.

Offerors who submit Enhanced White Papers in response to this RPP must submit by the date on the cover page of this RPP. Enhanced White Papers received after the time and date specified will not be evaluated.

3.2. Enhanced White Paper Submission


Do not submit any classified information in the Enhanced White Paper submission.

3.3. Submission Format

Offerors shall submit files in Microsoft Office formats or Adobe Acrobat (PDF – portable document format) as indicated below. ZIP files and other application formats are not acceptable. All files must be print-capable and without a password required. Filenames must contain the appropriate filename extension (.docx, .doc, .pptx, .ppt, .xlsx, .xls or .pdf). Filenames should not contain special characters. Apple users must ensure the entire filename and path are free of spaces and special characters.

An automated BIDS receipt confirmation will be provided by email. Offerors may submit in advance of the deadline and update (or replace any of the files) up until the submission deadline. Neither MTEC nor ATI will make allowances/exceptions for submission problems encountered by the Offeror using system-to-system interfaces. If the Offeror receives errors and fails to
upload the full submission prior to the submission deadline, the submission will not be accepted. It is the Offeror’s responsibility to ensure a timely and complete submission.

4 Enhanced White Paper Preparation Instructions

4.1. General Instructions

The Enhanced White Paper and Cost Proposal format provided in this MTEC RPP are mandatory and shall reference this RPP number (MTEC-20-10-COVID-19_NETCCN_TATRC). Offerors are encouraged to contact the Point-of-Contact (POC) identified herein up until the Enhanced White Paper submission date/time to clarify requirements.

Offerors shall submit Enhanced White Papers for evaluation according to the criteria set forth herein. Offerors are advised that only ATI as the MTEC’s CM, with the approval of the Government Agreements Officer, is legally authorized to contractually bind or otherwise commit funding for selected Awards as result of this RPP.

5 Technical Requirements

5.1. Introduction

Situation: Preparation for COVID-19 Related Critical Care Capability Shortages

Although the United States has more critical care beds per capita than other developed nations, emerging national and international experience with COVID-19-related critical illness suggests a high level of oncoming system stress on critical care resources and a likely potential for intensive care unit (ICU) beds and care teams to be overwhelmed. Tele-critical care can be a powerful force-multiplier in the extension of limited critical care resources in both high-census urban centers and rural communities in which access to critical care facilities, equipment and trained clinicians is limited even under normal conditions. Many local and regional health systems have invested extensively in telemedicine capabilities, but many of these systems lack sufficient scalability, and are limited both in interoperability with other telehealth systems and scope and reach of partner provider-networks and supported tele-clinical services. The vision for this effort is to extend local tele-critical care capability sets to a broader, flexible network – first locally, then step-wise regionally and nationally – that can be leveraged wherever there is need.

Overall Goal of Program

With respect to the COVID-19 challenge, the overall goal of this program is to support the rapid development, deployment and testing of the National Emergency Telecritical Care Network (NETCCN) – a cloud-based, low-resource, stand-alone health information management system
for the creation and coordination of flexible and extendable “virtual critical care wards.” These high acuity, virtual wards would bring high-quality critical care capability to nearly every bedside, be it healthcare facility, field hospital, or gymnasium.

Based on cellular communication networks, mobile technologies and cloud computing, the RPP will support the extension of high-quality intensive care to traditional (e.g., critical access hospitals and clinics) and non-traditional and temporary healthcare facilities (e.g., field hospitals and gymnasiums) which lack adequate critical care expertise and resources necessary for care of COVID-19-related illnesses.

Through a step-wise approach, this RPP will fund multiple teams consisting of healthcare organizations and technology vendors to rapidly, iteratively and collaboratively prototype, test and refine tele-critical care and data visualization solutions to support local, regional and ultimately, national COVID-19 care and situational awareness.

**Goal of RPP MTEC-20-10-COVID-19_NETCCN_TATRC**

This RPP specifically targets care contexts where critical care expertise – particularly important for managing hypoxic respiratory failure and organ dysfunction associated with COVID-19 – is not resident [such as at general medical facilities and/or intermediate “new facilities” established to augment hospital wards (e.g., gymnasiums)], where in these cases, tele-critical care could be used to provide access to expert consultation and improve patient outcomes.

**Technical Considerations**

Much of the technology required for this program is available now for other use-cases, but needs to be rapidly adapted for COVID-19 use-cases. These technologies include:

1) Secure, mobile communications capabilities, including synchronous audio/video, asynchronous messaging, and in some cases, access to continuous physiological monitoring
2) Clinician-facing web portal and/or mobile-based application (goal is availability on every device) to support clinical and operational situational awareness and visualization of individual patients, groups of patients and their data, and care team groups
3) Capability for real-time, essential clinical encounter documentation (SOAP note or similar concept) as well as asynchronous/synchronous data collection and reporting
4) Cloud-based information storage
5) Capability to export clinical data through PDF reports
6) Additional capability for real-time and/or asynchronous exchange with electronic health records (EHRs), Health Information Exchanges (HIEs) and/or other applicable computerized physical order entry (CPOE) systems via HL7, FHIR and/or other applicable standards

**Virtual Hospital Wards/ICUs**

Creation of rapidly deployable, scalable virtual hospital wards/ICUs will allow the application of high-quality intensive care to community hospitals, critical access hospitals, field hospitals, acute-
care wards, and other existing or temporary health care facilities. This will allow geographic extension of limited critical care resources, including expertise in management of COVID-19 related critical illness, be a force multiplier in the construction of new critical care support teams, and reduce transfers of patients between regions and facilities, thereby limiting transmission, conserving personal protective equipment (PPE), and reducing exposure of transport teams and vehicles.

**Illustrative examples of a virtual ward:**

1) A small rural hospital has 4 beds in their PACU that function as ICU beds when needed. The hospital has several nurses who are certified as critical care nurses but rarely practice critical care. There is a pharmacist available during the day. Respiratory therapy is available 24/7 but does not have capability to assign more than one therapist at a time. The hospital has a small Emergency Room. One emergency physician is on at a time and is the backup provider for emergency procedures and resuscitation for the hospital. The hospital also has one general surgeon and one specialist in hospital medicine who are not critical care trained but are comfortable with stabilizing critically ill patients until they can be transported to the larger regional hospital.

2) A gymnasium has been set up as a temporary field hospital to handle the surge of COVID-19 admissions. While many of these patients have mild illness, a significant number have deteriorated and now require critical care. Although it has relatively complete capabilities in terms of equipment and supplies, the field hospital does not have an electronic health record and has limited capabilities for telemetry or other centralized monitoring. Additionally, the medical staff to cover this hospital is a skeleton crew pulling from local hospitals that are also overwhelmed as well as first responders with various levels of medical training. Family members of patients have been recruited to provide basic bedside care.

3) An elderly man is sick with COVID-19. He cannot be admitted to the local hospital or any of the surrounding hospitals because they are at capacity. The patient’s son does not feel that it is safe to drive him elsewhere and is uncertain about what, if anything can be done. He’s heard about this NETCCN application and that he can ask for help and stay connected to critical care experts virtually. He downloads the application. The application opens and
guides him through a simple registration process which connects him to a triage professional. The triage professional determines that the patient should be “admitted” to a virtual ward where the TCC team can monitor progress using local sensors (possibly the mobile device or a wearable) and rounds on him every few hours. Ultimately, they coach the patient’s son through palliative care. The patient’s son is immensely grateful for the team’s professionalism and support in this difficult time.

Requirements for successful virtual wards:

1) Self-contained health information management system (or system of systems) using elastic cloud computing at a minimum, Internet of Things (IoT) connections, and anticipated incorporation of future artificial intelligence (AI) to enable:
   a) Patient flow management: virtual triage, admission and discharge, including the ability to rapidly divert patients to lower acuity care when indicated
   b) Patient level information management: basic electronic health record management including patient charting, order and treatment recording, and clinical result reporting
   c) Continuity of care through shift change, provider turnover, and patient transfer using lightweight patient hand-off tools
   d) Integrated audio-visual communications capability including tools for communication with bedside providers, monitor/device viewing, and image sharing (for example videoconferencing or .jpg upload) as well as tools for electronic communication with patients and family members
   e) Use of a HITRUST, FEDRAMP Cloud Security platform

2) Information sharing and reporting capabilities:
   a) A governance structure or “network of networks” must be implemented to coordinate this response
   b) Reporting and data visualization tools of both patient and system level data are crucial for information sharing, dissemination of consensus best-practice recommendations, measures of system stress, and rapid reallocation of resources
   c) Patient-level data should be aggregated and stored for later analysis, can eventually be batch loaded into existing electronic medical records (EMRs) when resources allow in accordance with HL7, FHIR and/or other applicable standards.
   d) System should allow for alerts, bulletins, and other timely communications to be pushed out to users
   e) Integrated information sharing should include the ability to push training and educational materials to frontline clinicians, especially those who will be asked to provide care outside of their pre-emergency scope of practice
   f) Each Offeror/team must address the standards, technology, data and workflow processes that will be included in their specific solution set for this RPP.

Coverage model for virtual hospital wards:
1. Use tele-critical care clinicians as a force multiplier—published ratios suggest that one virtual intensivist can monitor and respond to emergencies for 75-125 patients and one remote ICU nurse can provide virtual monitoring for 30-60 patients.

2. Recognize that these numbers, however, represent experienced tele-critical care teams supporting established systems, not ad hoc solutions. Expect at least a 50% drop in efficiency when starting a new telemedicine/tele-critical care system (so, 30-60 patients for physicians, and 15-30 patients for nurse monitoring and problem triage).

3. With experience, or if the situation demands, this care model could be expanded until the remote team can manage up to twice the initial number of patients.

4. Because these patients will be at high risk of acute life-threatening deterioration, bedside procedural capabilities will also be of paramount importance. Each ward will need access to proceduralists:
   a) aides/trained lay persons to help turn/position patients and suction airways
   b) nurses or paramedics to place intravenous (IV) lines, Foley catheters and administer medications
   c) respiratory therapists to adjust and troubleshoot mechanical ventilators
   d) physicians to place central lines, perform thoracentesis, or intubate patients and when necessary, facilitate transfer (e.g., extracorporeal membrane oxygenation (ECMO))

5. Virtual plus local staffing model for at least 100-150 patients should be developed and well described by Offerors as a deliverable. For example:
   a) 1 telemedicine intensivist
   b) 2-4 telemedicine registered nurses (RNs)/Respiratory Therapists
   c) Shared access to telemedicine pharmacist (and other specialty providers as needed) across multiple virtual wards
   d) Possible Minimum Bedside Clinicians ratios of: 1 Physician/APP:60 patients, 1 Nurse:20-30 patients, 1 aide:5-10 patients, 1 family member/friend:patient
   e) One bedside procedure team per site [1-3 members per site: MDs (emergency medicine, hospitalist, anesthesiologist, etc.)]

5.2. Scope of Work

*Optimal Applicant Teams: It is preferred that Enhanced White Papers propose projects that address the entire scope of work (Tasks 1-5). An optimal team responding to this RPP would consist of clinical experts, technology experts and entities with experience in change management and rapid cycle innovation. However, enhanced white paper submissions that only partially address the requirement are also encouraged, with the understanding that these Offerors may be teamed with other Offerors with complementary expertise to construct a complete team that can address the full scope of work.

The goals of this RPP are to provide a first system for deployment within 45 days of award (end of Task 3), a refined system for deployment within 6 months of award (end of Task 4), and a final system for deployment within 18 months of award (end of Task 5).
The intent of this RPP 20-10-COVID-19_NETCCN_TATRC is to initially award Tasks 1, 2, and 3. Information regarding Tasks 4 and 5 is intended to provide context so the Offeror is aware of potential work that could follow-on after the completion of Tasks 1, 2, and 3. The Offeror does need to price and provide details on how they would complete this follow-on work in Tasks 4 and 5.

**Task 1: Initial system configuration and testing (15 days)**
*(Completion of Task 1 is anticipated to be within 15 days of project start date)*

Offerors are expected to bring forth systems which they have currently developed that would facilitate the capture, exchange and archive of medical clinical information as described above. This task is largely based on the validation and initial outfitting of systems that would support generic consultation services from the virtual hospital wards to a central hub of specialists. Actions within this task would include:

- Offerors are strongly recommended to bring forth teams that include clinical care experts (preferably critical care subject matter experts [SMEs]) to assist in the production of a solution composed of software, hardware, and workflow (+/- data analytics). Note: Upon award, the Awardee will be connected to government clinical SMEs, but are also expected to have their own, specific clinical experts for this effort.
- Alpha testing to determine capabilities of proposed systems.
- Early user feedback and direct observation will be collected to determine performance in providing a deliverable with Task 1.
- It is recommended that high fidelity simulation and/or real-world use guides agile development in this phase.

**Go/No-go Decision Point:** As determined necessary by the government, at the conclusion of Task 1, the Government may conduct a review of the work completed and down-select Awardees based on an evaluation of the approach’s viability and system capabilities to meet the program’s technical requirements.

**Task 2: Rapid Development (30 days)**
*(Completion of Task 2 is anticipated to be within 15 days of completion of Task 1)*

Task 2 focuses on the second phase of development and testing. The actions expected in this task include:

- Potential rapid prototyping of software to support operations based upon user feedback.
- Beta testing by selected national tele-critical care (TCC) partners using real patients and experienced providers.
• Scalability, reliability, interface, and user environment testing to assess ability to field the system at scale (multiple state coverage) in support of less austere and trained personnel. This should be cloud based, ideally hosted on a HITRUST, FEDRAMP compliant server.
• Just-in-time training plan for clinical, technical and administrative end-users tested and ready.

**Go/No-go Decision Point:** If appropriate, at the conclusion of Task 2, the Government may conduct a review of the work completed and down-select Awardees again to a smaller set of systems for deployment based on the evaluation of a combination of the system performance metrics and the availability of funds to test multiple systems.

**Task 3: Deployment and Enhancement (45 days)**
*(Completion of Task 3 is anticipated to be within 15 days of completion of Task 2)*

During this task, the systems will be fielded to actual users and experience real world use at scale. Simultaneously, new adaptations can be made to fit the specifics of the COVID-19 pandemic, so movement from generic data transmission to more specific formats and clinical practices that represent COVID-19 support.

• Deploy system to multiple sites (dozens of sites are anticipated) with full implementation support services.
• Training should be self-contained within the application and not require in-person training for both consumers and TCC service teams; customer support (for consumers and service experts) may be offered through the application (e.g., chat function) or by phone call. The application should offer a simple method to collect user feedback/feature requests.
• Institute sustainment operations to maintain a high level of reliability, security and availability of the system.
• Work with user teams to develop COVID-19 specific formats and practices that can be used to improve data capture and clinical flow.

**Go/No-go Decision Point:** If appropriate, at the conclusion of Task 3, the Government may conduct a review of the work completed and down-select Awardees again to a smaller set of systems for deployment based on the evaluation of a combination of the system performance metrics and the availability of funds to test multiple systems.

**Optional Follow-on Task 4: Automated Improvements (3-6 months)**
*(Completion of Task 4 is anticipated to be within 4.5 months of completion of Task 3)*

This task aims to incorporate automated improvements that can enhance the care as well as reduce time with consultation personnel so that they can extend their care to a larger patient population. Examples of possible actions include:
• Incorporation of continuous monitoring devices and associated data beyond medical devices (e.g., wearables), access to ventilator settings and waveforms and access to IV pump settings.
• Remote control of medical equipment including IV pumps, ventilators, hospital beds and other priority devices/equipment most associated with the mission.
• Incorporation of autonomous systems (e.g. ventilators, sedation) into the workflow.
• Application of AI and machine learning to clinical deterioration prediction, resource allocation, and outbreak forecasting.

Note: During Task 4 the Government will be able to make a U.S. Food and Drug Administration (FDA) SME available to the Awardees to advise on any FDA clearance concerns, if required.

Go/No-go Decision Point: If appropriate, at the conclusion of Task 4, the Government may conduct a review of the work completed and down-select Awardees again to a smaller set of systems for deployment based on the evaluation of a combination of the system performance metrics and the availability of funds to test multiple systems.

Optional Follow-on Task 5: Full Scale Development and Integration (6-18 months)
(Completion of Task 5 is anticipated to be within 12 months of completion of Task 4)

This task expands the system to incorporate the greater network and systems of the DoD and civilian workplaces.
• Drop-in mobile network capabilities in the event of loss of critical communications infrastructure.
• Interoperability with most/all medical devices.
• Interoperability and communication with major existing electronic medical record systems.
• Increased ability to perform procedures remotely including ultrasound, vascular access and intubation.

Additional Points of Consideration for Implementation:
1. Extremely compressed timeline: This is an ambitious timeline but represents a high priority for the tele-critical care community and the nation.
2. Device interoperability concerns: The ideal solution will be operating-system and device-agnostic to ensure the broadest possible interoperability. Necessary in the future is a “plug-and-play” concept for medical devices into the NETCCN system (e.g., any heart rate monitoring device – wearable, ECG, telemetry, etc. – should populate the HR data of the monitoring software. In the short term, this will need to be achieved through the use of APIs.
3. Task Summary/Lessons Learned: the Government intends to share valuable lessons learned among Awardees at the conclusion of each task to ensure the most rapid progress of the NETCCN development and avoid duplication or redundancies. Awardees will prepare evaluation reports and presentations at the conclusion of each task to summarize activities, highlight successes, identify barriers and anticipated issues, emphasize lessons learned, and highlight any other key items from the project. The ability to use the prototype in real-time
for these evaluations will be expected. An emphasis on simplicity for the end-user is expected given the context that these tools will be expected to be used in (i.e., crisis and disasters).

4. Network access and reliability: social distancing, working from home, self-quarantine and shelter-in-place requirements have the potential to place significant stress on existing wireless networks and other internet service providers. One solution to this problem would be prioritization of NETCCN traffic (identified by application use) over other resource intensive but less crucial communications.

5. A plan for provider licensing/credentialing for local, regional and national responses using the NETCCN is being developed by the Government.

6. All Awardees will be expected to collaborate and work together to identify and resolve key issues that could prevent or slow local, regional and national implementation of NETCCN capabilities. Such areas of collaboration across teams might include agreement on standards, data models workflows, measures and evaluation criteria and clinical models.

5.3. Potential Follow-On Tasks [Beyond Task 5 described in Section 5.2]
There is potential for award of one or more follow-on tasks based on the success of any resultant Research Project Awards (subject to change depending upon Government review of work completed). Note that any potential follow on work is expected to be awarded non-competitively to resultant project awardees:

- Scale and sustain the NETCCN from state and/or regional to national/international needs
- Cross-team activities including but not limited to evaluation reports, publications, presentations, hack-a-thons and standards development activities
- Adaptation and testing of NETCCN’s use in follow-on COVID-19 or other potential pandemics, emergencies, and disasters.

5.4. Restrictions on Animal and Human Subjects
Enhanced White Papers must comply with restrictions and reporting requirements for the use of animal and human subjects, to include research involving the secondary use of human biospecimens and/or human data. The Awardee shall ensure local Institutional Animal Care and Use Committee (IACUC) and Institutional Review Board (IRB) approvals, continuing review (in the intervals specified by the local IACUC and IRB, but at a minimum, annually), and approval by the U.S. Army Animal Use and Review Office (ACURO) and U.S. Army Human Research Protections Office (HRPO). Offerors shall include IACUC, ACURO, IRB and HRPO review and approval in the SOW/Milestones Table.

*These restrictions include mandatory government review and reporting processes that will impact the Offeror’s schedule.*

For example, the clinical studies under this RPP shall not begin until the USAMRDC Office of Research Protections (ORP) provides authorization that the research may proceed. The USAMRDC ORP will issue written approval to begin research under separate notification. Written approval to proceed from the USAMRMC ORP is also required for any Research Project Awardee (or lower tier subawards) that will use funds from this award to conduct research involving
human subjects. Offerors must allow at least 60 days in their schedule for the ORP review and authorization process.

6 Enhanced White Paper Preparation

6.1. Preparation of the Enhanced White Paper
Offerors submitting Enhanced White Paper in response to this RPP will be required to submit using the following steps outlined below:

**Step 1: Enhanced White Paper**

The Offeror shall submit an Enhanced White Paper using the template provided in Section 10, which describes the overall technical concept and approach along with the viability toward the Offeror’s specific effort. Enhanced White Papers shall be submitted by the date and time specified on the cover page using BIDS: [https://ati2.acqcenter.com/ATI2/Portal.nsf/Start?ReadForm](https://ati2.acqcenter.com/ATI2/Portal.nsf/Start?ReadForm)

Enhanced White Papers exceeding the page limit specified in Section 10 of the RPP may not be accepted.

6.2. Enhanced White Paper Evaluation:

1. The CM will distribute all Enhanced White Papers to the Government for scientific and programmatic relevance evaluation.

2. Initial Screening: The Government will perform an initial screening of the submissions. This initial screening will be based on the content of Section 1 of the Enhanced White Paper (see Section 10 of the RPP for the Enhanced White Paper Template). The remaining sections of the Enhanced White Paper will not be reviewed at this stage of the evaluation process – ONLY SECTION 1 of the Enhanced White Paper will be reviewed by the Government at this stage. Any Enhanced White Papers found not to meet the minimum acceptable qualifications as detailed below may be removed from consideration, no further evaluation will be performed, and feedback will not be provided to these Offerors. Section 1 of each Enhanced White Paper submission will be reviewed by the Government using the following criteria in order to determine if the submitted Enhanced White Paper meets the qualifications to receive a full evaluation:

   - **Programmatic Relevance/Responsiveness**: Does the proposed project reflect an understanding of the problems to be solved and the clinical and technical challenges and opportunities in addressing them? Does the proposed project support rapid development of all the capabilities described in the RPP?
   - **Feasibility/Timeliness**: Does the proposed project support rapid development of all the capabilities described in the RPP, and does it seem reasonable and realistic
to accomplish the project tasks on time as outlined in Section 5 of the RPP and with high quality?

- **Team Capabilities and Expertise:** Does the Offeror’s team provide expertise and demonstrate experience in the key set of technical and clinical domains necessary to support success in this effort?

(3) Full Evaluation: Any Enhanced White Papers found to meet the minimum acceptable qualifications outlined in the initial screening will receive a full evaluation. Offerors will receive feedback on the full evaluation. The full evaluation of the complete Enhanced White Paper submissions will be conducted based on the following criteria (evaluation factors are of equal importance):

- **Factor 1 – Programmatic Relevance:** Feasibility of the proposed solution and its alignment with the RPP’s topic area and the program objective described in Section 5. How well the proposed methodology aligns with the specific focus area(s) and the overall intent of the announcement.

- **Factor 2 – Team Capabilities and Expertise:** Ability of the Offeror’s team to meet the technical requirements described in Section 5. The Government may consider the project management plan and experience as an aspect of this factor.

- **Factor 3 – Scientific/Development Plan:** Relevancy, thoroughness, and completeness of the proposed approach (e.g., the technical merit). This includes such factors as 1) hypothesis/objectives; 2) scientific/development rationale with supporting preliminary use cases, experience, and/or data; 3) scientific study/development design feasibility. The Government may consider SOW and estimated budget as an aspect of overall scientific feasibility.

- **Factor 4 – Scalability and Sustainment.** Feasibility of the Offeror’s overarching strategy to enable scalability and sustainment of the NETCCN.

The Government will conduct the source selection based on the evaluation criteria listed above. The overall award decision will be based upon a Best Value determination by considering and comparing factors in addition to cost or price. See the table entitled “Table 2 - General Merit Rating Assessments” under Section 7 of this RPP for details regarding the adjectival merit ratings that will be used for the non-cost/price evaluation factors detailed above. The Offeror shall clearly state how it intends to meet and, if possible, exceed the RPP requirements. Mere acknowledgement or restatement of an RPP requirement is not acceptable.

**Upon review of the Enhanced White Papers, Offerors who are favorably evaluated may be invited for informal discussions with the Government. Offerors who are recommended for award will be required to submit a full Cost Proposal. See RPP Section 6.3 for additional details.**

**6.3. Step 2: Cost Proposal (for Only Those Offerors Recommended for Funding)**

Offerors that are recommended for funding will receive notification letters which will serve as the formal request for a full Cost Proposal (and may contain a request for Enhanced White Papers
revisions based on the results of the technical evaluation). These letters will contain specific submission requirements if there are any changes to those contained in this RPP.

The Cost Proposal shall be submitted in two separate sections. One Word (.docx or .doc) or PDF file for Section I: Cost Proposal Narrative (the MTEC Proposal Preparation Guide will be provided by MTEC to Offerors invited to Step 2). Separately, Section II: Cost Proposal Formats either in Excel (.xlsx or .xls) or PDF format is required.

Each offeror selected for Step 2 will select either the MTEC Additional Research Project Award Assessment Fee or the Royalty Payment Agreement (available on the MTEC members only website), not both and submit a signed copy with the full proposal. Please see RPP Section 2.10 for additional information.

**Offerors are encouraged to use their own cost formats.** MTEC will make cost proposal formats available to Offerors invited to Step 2. These Cost Proposal formats provided by MTEC are NOT mandatory.

Each cost should include direct costs and other necessary components as applicable, for example, fringe, General & Administrative Expense (G&A), Facilities & Administrative (F&A), Other Direct Costs (ODC), etc. Offerors shall provide a breakdown of material and ODC costs as applicable.

Please note that compensation to Federal personnel (civil servants or Service members) participating as human subjects (when “On-Duty”), whether or not the research is Federally funded, is **unallowable** (with the exception of some blood draws) in accordance with Department of Defense Instruction number 3216.02 (SUBJECT: Protection of Human Subjects and Adherence to Ethical Standards in DoD-Supported Research). You may access a full version of the DODI by accessing the following link: https://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodi/321602p.pdf

6.4. **Freedom of Information Act (FOIA)**
To request protection from FOIA disclosure as allowed by 10 U.S.C. §2371(i), Offerors shall mark business plans and technical information with a legend identifying the documents as being submitted on a confidential basis.

6.5. **Enhanced White Paper and Cost Proposal Preparation Costs**
The cost of preparing Enhanced White Papers and Cost Proposals in response to this RPP is not considered a direct charge to any resulting award or any other contract.

7 **Selection**
The CM will conduct a preliminary screening of submitted Enhanced White Papers to ensure compliance with the RPP requirements. Enhanced White Papers that do not meet these requirements may be eliminated from the competition without further review or evaluation. One of the primary reasons for non-compliance or elimination during the initial screening is the lack
of significant nontraditional defense contractor participation, nonprofit research institution participation, small business participation or cost share (see RPP Section 2.8). The appropriate use of Other Transaction authority with regards to the mandatory statutory Cost Sharing or inclusion of a Nontraditional Defense Contractor, small business or nonprofit research institution participating to a significant extent determination will be made as shown in the Table below:

<table>
<thead>
<tr>
<th>TABLE 1 - APPROPRIATE USE OF OTHER TRANSACTION AUTHORITY ASSESSMENTS</th>
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<tbody>
<tr>
<td>RATING</td>
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Based on the results of the evaluation of the Enhanced White Papers, Offerors may be selected for funding, placed into the basket, or not selected.

7.1 Best Value
The Government will conduct the source selection based on the evaluation criteria detailed in Section 6 of the RPP and ratings listed in Table 2. The overall award decision will be based upon a Best Value determination by considering and comparing factors in addition to cost or price. Based on the results of the evaluation, the Government reserves the right to negotiate and
request changes to any or all parts of the Offeror’s proposal. Offerors will have the opportunity to concur with the requested changes, proposed further changes and revise cost proposals, as necessary.

The RPP review and award process may involve the use of contractors as subject-matter-experts or reviewers; where appropriate, the U.S. Government (USG) will employ NDAs to protect information contained in the RPP as outlined in Section 2.5.

<table>
<thead>
<tr>
<th>TABLE 2 – GENERAL MERIT RATING ASSESSMENTS</th>
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<tbody>
<tr>
<td><strong>RATING</strong></td>
</tr>
<tr>
<td>OUTSTANDING</td>
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<tr>
<td>GOOD</td>
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<tr>
<td>ACCEPTABLE</td>
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<tr>
<td>MARGINAL</td>
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<td>UNACCEPTABLE</td>
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</tbody>
</table>

8 Points-of-Contact

For inquiries, please direct your correspondence to the following contacts:

- Questions concerning contractual, cost or pricing related to this RPP should be directed to the MTEC Contracts Administrator, mtec-contracts@ati.org
- Technical and membership questions should be directed to the MTEC Director of Research, Dr. Lauren Palestrini, Ph.D., lauren.palestrini@officer.mtec-sc.org
- All other questions should be directed to the MTEC Director of Program Operations Ms. Kathy Zolman, kathy.zolman@ati.org
Once an Offeror has submitted an Enhanced White Paper, the Government and the MTEC CM will not discuss evaluation/status until the source selection process is complete.

### 9 Acronyms/Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>ACURO</td>
<td>U.S. Army Animal Use and Review Office</td>
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<td>ATI</td>
<td>Advanced Technology International</td>
</tr>
<tr>
<td>CAS</td>
<td>Cost accounting standards</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
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<tr>
<td>CM</td>
<td>Consortium Manager</td>
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<tr>
<td>CMA</td>
<td>Consortium Member Agreement</td>
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<tr>
<td>CPOE</td>
<td>Computerized physical order entry</td>
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<tr>
<td>DoD</td>
<td>Department of Defense</td>
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<tr>
<td>ECMO</td>
<td>Extracorporeal membrane oxygenation</td>
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<tr>
<td>EHR</td>
<td>Electronic health records</td>
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<tr>
<td>EMR</td>
<td>Electronic medical records</td>
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<tr>
<td>FAQ</td>
<td>Frequently Asked Questions</td>
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<tr>
<td>F&amp;A</td>
<td>Facilities and Administrative Costs</td>
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<tr>
<td>FDA</td>
<td>U.S. Food and Drug Administration</td>
</tr>
<tr>
<td>FY</td>
<td>Fiscal Year</td>
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<tr>
<td>G&amp;A</td>
<td>General and Administrative Expenses</td>
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<tr>
<td>HIEs</td>
<td>Health Information Exchanges</td>
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<tr>
<td>HRPO</td>
<td>Human Research Protections Office</td>
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<tr>
<td>IACUC</td>
<td>Institutional Animal Care and Use Committee</td>
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<tr>
<td>ICU</td>
<td>Intensive Care Unit</td>
</tr>
<tr>
<td>IP</td>
<td>Intellectual Property (e.g., patents, copyrights, licensing, etc.)</td>
</tr>
<tr>
<td>IRB</td>
<td>Institutional Review Board</td>
</tr>
<tr>
<td>IR&amp;D</td>
<td>Independent Research and Development</td>
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<td>IV</td>
<td>Intravenous</td>
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<tr>
<td>M</td>
<td>Millions</td>
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<tr>
<td>MPS</td>
<td>Milestone Payment Schedule</td>
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<td>MTEC</td>
<td>Medical Technology Enterprise Consortium</td>
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<tr>
<td>NDA</td>
<td>Nondisclosure Agreement</td>
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<tr>
<td>NETCCN</td>
<td>National Emergency Telecritical Care Network</td>
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<tr>
<td>OCI</td>
<td>Organizational Conflict of Interest</td>
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<tr>
<td>ODC</td>
<td>Other Direct Charges</td>
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<tr>
<td>ORP</td>
<td>Office of Research Protections, USAMRDC</td>
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<tr>
<td>OTA</td>
<td>Other Transaction Agreement</td>
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<tr>
<td>POC</td>
<td>Point-of-Contact</td>
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<tr>
<td>PoP</td>
<td>Period of performance</td>
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<td>PPE</td>
<td>Personal protective equipment</td>
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<tr>
<td>RDA</td>
<td>Research, Development, and Acquisition</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<tr>
<td>RN</td>
<td>Registered nurse</td>
</tr>
<tr>
<td>ROM</td>
<td>Rough Order of Magnitude</td>
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<tr>
<td>RPP</td>
<td>Request for Project Proposals</td>
</tr>
<tr>
<td>SME</td>
<td>Subject Matter Experts</td>
</tr>
<tr>
<td>SOW</td>
<td>Statement of Work</td>
</tr>
<tr>
<td>TATRC</td>
<td>Telemedicine and Advanced Technology Research Center</td>
</tr>
<tr>
<td>TCC</td>
<td>Tele Critical Care</td>
</tr>
<tr>
<td>USAMRDC</td>
<td>U.S. Army Medical Research and Development Command</td>
</tr>
<tr>
<td>USG</td>
<td>U.S. Government, specifically the DoD</td>
</tr>
</tbody>
</table>
10 Enhanced White Paper Template

Page Limitation: The Enhanced White Paper is limited to thirteen (13) pages (including cover page). The following Appendices are excluded from the page limitation: (4.1) Statement of Work, (4.2) Data Rights, and (4.3) Warranties and Representations

Required Format: 12 point font (or larger), single-spaced, single-sided, 8.5 inches x 11 inches). Smaller type may be used in figures and tables, but must be clearly legible. Margins on all sides (top, bottom, left, and right) should be at least 0.5 inch.

Please note a full Cost Proposal will be requested if the Enhanced White Paper is selected for funding.
Cover Page

[Name of Offeror]
[Address of Offeror]
[Phone Number and Email Address of Offeror]

DUNS #: [DUNS #]
CAGE code: [CAGE code]

>Title of Enhanced White Paper

Specific Requirement addressed in Enhanced White Paper

[Offeror] certifies that, if selected for award, the Offeror will abide by the terms and conditions of the MTEC Base Agreement.

[Offeror] certifies that this Enhanced White Paper is valid for 3 years from the close of the applicable RPP, unless otherwise stated.

[A proprietary data disclosure statement if proprietary data is included. Sample:
This Enhanced White Paper includes data that shall not be disclosed outside the MTEC Consortium Management Firm and the Government and shall not be duplicated, used, or disclosed, in whole or in part, for any purpose other than to evaluate this Enhanced White Paper and negotiate any subsequent award. If, however, an agreement is awarded as a result of, or in connection with, the submission of this data, the MTEC Consortium Management Firm and the Government shall have the right to duplicate, use, or disclose these data to the extent provided in the resulting agreement. This restriction does not limit the MTEC Consortium Management Firm and the Government's right to use the information contained in these data if they are obtained from another source without restriction. The data subject to this restriction is (clearly identify) and contained on pages (insert page numbers).]
SECTION 1: INITIAL SCREENING SUMMARY (2 page limit)

- **Programmatic Relevance:** [Describe the understanding of the overall problem and the associated clinical and technical challenges described in this RPP. Describe your approach to the problems to be solved.]
- **Responsiveness:** [Briefly describe the technology required for this project that you have available now for other use-cases.]
- **Timeliness:** [Indicate the estimated time of completion for each Task as described in Section 5 of the RPP.]
- **Technical Abstract:** [Describe project goals, hypothesis/objectives, study design, and deliverables. Identify key risks and mitigation plans.]
- **Team Capabilities and Expertise:** [Briefly describe the Offeror’s capabilities and expertise in relation to the effort proposed. Describe the leadership structure and management plan of the project. Indicate if the team has worked together before. Indicate whether there are systems/processes in place for the proposed team to work remotely.]
- **Partnering:** [Explicitly identify which capabilities (and applicable experience) you have within your existing solution sets. Indicate if there are parts of the scope of work that you would need a partner for.]

SECTION 2: TECHNICAL

Section 2.1: Programmatic Relevance

- Provide the background and the Offeror’s understanding of the problem and/or technology gap/process deficiency.
- Provide a description of how the proposed technology meets the needs specified in this RPP.
- Timeliness: Describe how you will deploy your technology for field use.

Section 2.2: Scope Statement

- Define the scope of the effort and clearly state the objectives of the project.
- Explain if the effort is a complete solution to the requirement, or some portion thereof. (Explicitly identify which capabilities (and applicable experience) you have within your existing solution sets. Indicate if there are parts of the scope of work that you would need a partner for.)

Section 2.3: Scientific Rationale / Preliminary Data
• Describe the scientific rationale for the project, including a brief description of the previous studies (use cases) or preliminary data that support the feasibility of proposed work.

Section 2.4: Technical Approach
• Describe the experimental design, methods, and materials required to accomplish the proposed approach. Describe the proposed methodology in sufficient detail to show a clear course of action.

Section 2.5: Anticipated Outcomes
• Provide a description of the anticipated outcomes from the proposed work. List milestones and deliverables from the proposed work.

Section 2.6: Team
• Describe the qualifications and expertise of the key personnel and organizations that will perform the proposed work.
• Indicate if the team has worked together before.
• Indicate if the team has systems/processes in place to work as a (remote) team.
• Indicate which organizations or types of organizations you will need to team/partner with as your technology advances through program tasks.

Section 2.7: Project Management Plan
• Describe the overall project management plan.

Section 2.8: Scalability and Sustainment Plan
• Describe the overarching strategy to enable scalability and sustainment of the NETCCN.

Section 2.9: Resources
• Identify any key facilities, equipment and other resources proposed for the effort. Identified facilities, equipment and resources should be available and relevant for the technical solution being proposed.

Section 2.10: Schedule
• Period of Performance: Indicate the proposed period of performance by task in months from award.
• Proposed Schedule: Provide a schedule (e.g. Gantt chart) that clearly shows the plans to perform the program tasks in an orderly, timely manner. Provide each major task as a separate line.

Section 2.11: Risk Identification and Mitigation
• Identify key technical, schedule, and cost risks. Discuss the potential impact of the risks, as well as potential mitigations.
SECTION 3: COST ESTIMATE

Section 3.1: Estimate Summary
- The Offeror must provide an estimate based on the technical approach proposed in the Enhanced White Paper. The following chart (tailored as appropriate) shall be included in the Enhanced White Paper. If selected for award, a full cost proposal will be requested.

<table>
<thead>
<tr>
<th>Year</th>
<th>Estimate</th>
<th>Cost Share Estimate (if applicable)</th>
<th>Total Estimate (w/ Cost Share)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 1</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Task 2</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Task 3</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Task 4</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Task 5</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

Section 3.2: Estimate Rationale
- The Offeror must provide a brief rationale describing how the estimate was calculated and is appropriate for the proposed scope or approach.

SECTION 4: APPENDICES (excluded from the page limit)

Appendix 4.1: Statement of Work (template provided below)
- Provide a draft Statement of Work as a separate Word document to outline the proposed technical solution and demonstrate how the contractor proposes to meet the Government objectives. Submitted information is subject to change through negotiation if the Government selects the Enhanced White Paper for award. The format of the proposed Statement of Work shall be completed in accordance with the template provided below.
- The Government reserves the right to negotiate and revise any or all parts of SOW/Milestone Payment Schedule. Offerors will have the opportunity to concur with revised SOW/Milestone Payment Schedule as necessary.

Appendix 4.2: Data Rights Assertions (template provided below)
- The Offeror shall comply with the terms and conditions defined in the Base Agreement regarding Data Rights. It is anticipated that anything delivered under this proposed effort would be delivered to the Government with Government Purpose Data Rights or Unlimited Data Rights.
- If this is not the intent, then you should discuss any restricted data rights associated with any proposed deliverables. If applicable, complete the below table for any items to be furnished to the Government with restrictions.
Appendix 4.3: Warranties and Representations (template provided below)

- Warranties and Representations are required. One Word (.docx or .doc) or PDF file that contains all Warranties and Representations is required.

APPENDIX TEMPLATES (Please provide as separate attachments)

Appendix 4.1: Statement of Work

The SOW developed by the Lead MTEC member organization and included in the proposal (also submitted as a separate document) is intended to be incorporated into a binding agreement if the proposal is selected for award. If no SOW is submitted with the proposal, there may be no award. The proposed SOW shall contain a summary description of the technical methodology as well as the task description, but not in so much detail as to make the contract inflexible. DO NOT INCLUDE ANY PROPRIETARY INFORMATION OR COMPANY-SENSITIVE INFORMATION IN THE SOW TEXT. The following is the required format for the SOW.

Proposal Number:
Organization:
Title:
ACURO and/or HRPO approval needed:

Introduction/Background (To be provided initially by the Offeror at the time of proposal submission. Submitted information is subject to change through negotiation if the Government selects the proposal for funding.)

Scope/Project Objective (To be provided initially by the Offeror at the time of proposal submission. Submitted information is subject to change through negotiation if the Government selects the proposal for funding.)

This section includes a statement of what the project covers. This should include the technology area to be investigated, the objectives/goals, and major milestones for the effort.

Requirements (To be provided initially by the Offeror at the time of proposal submission to be finalized by the Government based on negotiation of Scope/Project Objective).
State the technology objective in the first paragraph and follow with delineated tasks required to meet the overall project goals. The work effort should be segregated into major phases, then tasks and identified in separately numbered paragraphs (similar to the numbered breakdown of these paragraphs). Early phases in which the performance definition is known shall be detailed by subtask with defined work to be performed. Planned incrementally funded phases will require broader, more flexible tasks that are priced up front, and adjusted as required during execution and/or requested by the Government to obtain a technical solution. Tasks will need to track with established adjustable cost or fixed price milestones for payment schedule. Each major task included in the SOW should be
priced separately in the cost proposal. Subtasks need not be priced separately in the cost proposal.

**Deliverables** *(To be provided initially by the Offeror at the time of proposal submission. Submitted information is subject to change through negotiation if the Government selects the proposal for funding.)*

Results of the technical effort are contractually binding and shall be identified herein. Offerors are advised to read the Base Agreement carefully. Any and all hardware/software to be provided to the Government as a result of this project shall be identified. Deliverables should be submitted in PDF or MS Office format. It must be clear what information will be included in a deliverable either through a descriptive title or elaborating text.

**Milestone Payment Schedule** *(To be provided initially by the Offeror at the time of proposal submission. Submitted information is subject to change through negotiation if the Government selects the proposal for funding. The milestone schedule included should be in editable format (i.e., not a picture))*

The Milestone Payment Schedule should include all milestone deliverables that are intended to be delivered as part of the project, a planned submission date, the monetary value for that deliverable and any cost share, if applicable. For fixed price agreements, when each milestone is submitted, the MTEC member will submit an invoice for the exact amount listed on the milestone payment schedule. For cost reimbursable agreements, the MTEC member is required to assign a monetary value to each milestone. In this case, however, invoice totals are based on cost incurred and will not have to match exactly to the amounts listed on the milestone payment schedule.

The milestones and associated deliverables proposed should, in general:

- be commensurate in number to the size and duration of the project (i.e., a $5M multi-year project may have 20, while a $700K shorter term project may have only 6);
- not be structured such that multiple deliverables that might be submitted separately are included under a single milestone;
- be of sufficient monetary value to warrant generation of a deliverable and any associated invoices;
- include at a minimum Quarterly Reports which include both Technical Status and Business Status Reports (due the 25th of Apr, Jul, Oct, Jan), Annual Technical Report, Final Technical Report, and Final Business Status Report. Reports shall have no funding associated with them.

---

MTEC Milestone Payment Schedule *Example*
<table>
<thead>
<tr>
<th>MTEC Milestone Number</th>
<th>Task Number</th>
<th>Significant Event/Accomplishments</th>
<th>Due Date</th>
<th>Government Funds</th>
<th>Cost Share</th>
<th>Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N/A</td>
<td>Project Kickoff</td>
<td>12/1/2019</td>
<td>$20,000</td>
<td>$20,000</td>
<td>$20,000</td>
</tr>
<tr>
<td>2</td>
<td>N/A</td>
<td>Quarterly Report 1 (October - December, Technical and Business Reports)</td>
<td>1/25/2020</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Protocol Synopsis</td>
<td>2/28/2020</td>
<td>$21,075</td>
<td>$21,075</td>
<td>$21,075</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Submission for HRPO Approval</td>
<td>2/28/2020</td>
<td>$21,075</td>
<td>$21,075</td>
<td>$21,075</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>Submission of Investigational New Drug application to the US FDA</td>
<td>4/30/2020</td>
<td>$210,757</td>
<td>$187,457</td>
<td>$398,214</td>
</tr>
<tr>
<td>6</td>
<td>N/A</td>
<td>Quarterly Reports 2 (January - March, Technical and Business Reports)</td>
<td>4/25/2020</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>7</td>
<td>N/A</td>
<td>Quarterly Report 3 (April - June, Technical and Business Reports)</td>
<td>7/25/2020</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>Toxicity Studies</td>
<td>10/1/2020</td>
<td>$63,227</td>
<td>$63,227</td>
<td>$63,227</td>
</tr>
<tr>
<td>9</td>
<td>N/A</td>
<td>Annual Report 1</td>
<td>10/25/2020</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td>FDA authorization trial</td>
<td>11/30/2020</td>
<td>$84,303</td>
<td>$84,303</td>
<td>$84,303</td>
</tr>
<tr>
<td>11</td>
<td>6</td>
<td>Research staff trained</td>
<td>11/30/2020</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>12</td>
<td>7</td>
<td>Data Management system completed</td>
<td>11/30/2020</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>13</td>
<td>8</td>
<td>1st subject screened, randomized and enrolled in study</td>
<td>1/1/2021</td>
<td>$150,000</td>
<td>$187,457</td>
<td>$337,457</td>
</tr>
<tr>
<td>14</td>
<td>N/A</td>
<td>Quarterly Report 4 (October - December, Technical and Business Reports)</td>
<td>1/25/2021</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>15</td>
<td>9</td>
<td>Completion of dip molding apparatus</td>
<td>3/1/2021</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Project Description</td>
<td>Due Date</td>
<td>Amount</td>
<td>Remaining</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---------------------</td>
<td>----------</td>
<td>--------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>N/A</td>
<td>Quarterly Reports 5 (January - March, Technical and Business Reports)</td>
<td>4/25/2021</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>10</td>
<td>Assess potential toxicology</td>
<td>6/1/2021</td>
<td>$157,829</td>
<td>$157,829</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>N/A</td>
<td>Quarterly Report 6 (April - June, Technical and Business Reports)</td>
<td>7/25/2021</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>11</td>
<td>Complete 50% patient enrollment</td>
<td>10/1/2021</td>
<td>$350,000</td>
<td>$187,457</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>N/A</td>
<td>Annual Report 1</td>
<td>10/25/2021</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>N/A</td>
<td>Quarterly Report 7 (October - December, Technical and Business Reports)</td>
<td>1/25/2022</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>12</td>
<td>Electronic Report Forms Developed</td>
<td>3/1/2022</td>
<td>$315,658</td>
<td>$187,457</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>N/A</td>
<td>Quarterly Reports 8 (January - March, Technical and Business Reports)</td>
<td>4/25/2022</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>N/A</td>
<td>Quarterly Report 9 (April - June, Technical and Business Reports)</td>
<td>7/25/2022</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>13</td>
<td>Complete 100% patient enrollment</td>
<td>8/1/2022</td>
<td>$315,658</td>
<td>$187,457</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>N/A</td>
<td>Annual Report 1</td>
<td>10/25/2022</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>14</td>
<td>Report results from data analysis</td>
<td>11/1/2022</td>
<td>$157,829</td>
<td>$157,829</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>N/A</td>
<td>Final Reports (Prior to the POP End)</td>
<td>11/30/2022</td>
<td>$ -</td>
<td>$ -</td>
<td></td>
</tr>
</tbody>
</table>

**Total** | $2,025,240 | $1,124,742 | $3,149,982

**Please Note:**
1. Firm Fixed Price Contracts – Milestone must be complete before invoicing for fixed priced contracts.
2. Cost Reimbursable Contracts – You may invoice for costs incurred against a milestone. Invoicing should be monthly.
3. Cannot receive payment for a report (i.e. Quarterly, Annual and Final Reports)
should not have an assigned Government Funded or Cost Share amount.)
4. Quarterly and Annual Reports include BOTH Technical and Business Reports (separate).
5. Final Report due date must be prior to POP end noted in subcontract.
6. MTEC Milestone Numbers are used for administrative purposes and should be sequential.
7. Task Numbers are used to reference the statement of work if they are different from the MTEC Milestone Number.

Shipping Provisions (The following information, if applicable to the negotiated SOW, will be finalized by the Government and the MTEC Consortium Manager based on negotiations)

The shipping address is:
Classified Shipments:
  Outer Packaging
  Inner Packaging

Reporting

<table>
<thead>
<tr>
<th>Report Months</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>January – March</td>
<td>25 April</td>
</tr>
<tr>
<td>April - June</td>
<td>25 July</td>
</tr>
<tr>
<td>July - September</td>
<td>25 October</td>
</tr>
<tr>
<td>October - December</td>
<td>25 January</td>
</tr>
</tbody>
</table>

Quarterly Reports – The MTEC research project awardee shall prepare a Quarterly Report which will include a Technical Status Report and a Business Status Report in accordance with the terms and conditions of the Base Agreement. (Required)
Annual Technical Report – The project awardee shall prepare an Annual Technical Report for projects whose periods of performances are greater than one year in accordance with the terms and conditions of the Base Agreement. (Required)
Final Technical Report – At the completion of the Research Project Award, the awardee will submit a Final Technical Report, which will provide a comprehensive, cumulative, and substantive summary of the progress and significant accomplishments achieved during the total period of the Project effort in accordance with the terms and conditions of the Base Agreement. (Required)

Final Business Status Report – At the completion of the Research Project Award, the awardee will submit a Final Business Status Report, which will provide summarized details of the resource status of the Research Project Award, in accordance with the terms and conditions of the Base Agreement. (Required)

Appendix 4.2: Data Rights Assertions
Data Rights
The Offeror shall comply with the terms and conditions defined in the Base Agreement regarding Data Rights.
It is anticipated that anything delivered under this proposed effort would be delivered to the Government with Government purpose data rights or unlimited data rights. If this is not the intent, then the proposal should discuss data rights associated with each item, and possible approaches for the Government to gain Government purpose data rights or unlimited data rights as referenced in the Base Agreement. Rights in technical data in each Research Project Award shall be determined in accordance with the provisions of MTEC Base Agreement.
If applicable, complete the below table for any items to be furnished to the Government with restrictions. An example is provided.

Please indicate your assertion:
- Unlimited Data Rights.
- Government Purpose Data Rights.
- Restricted Government Rights as described below.

<table>
<thead>
<tr>
<th>Technical Data or Computer Software to be Furnished with Restrictions</th>
<th>Basis for Assertion</th>
<th>Asserted Rights Category</th>
<th>Name of Organization Asserting Restrictions</th>
<th>Milestone # Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software XYZ</td>
<td>Previously developed software funded exclusively at private expense</td>
<td>Restricted</td>
<td>Organization XYZ</td>
<td>Milestones 1, 3, and 6</td>
</tr>
<tr>
<td>Technical Data Description</td>
<td>Previously developed exclusively at private expense</td>
<td>Limited</td>
<td>Organization XYZ</td>
<td>Milestone 2</td>
</tr>
<tr>
<td>Technical Data Description</td>
<td>Previously developed with mixed funding</td>
<td>Government Purpose Rights</td>
<td>Organization XYZ</td>
<td>Milestone 2</td>
</tr>
</tbody>
</table>

Appendix 4.3: Warranties and Representations:
Authority to use Other Transaction Agreement
Section 815 of the National Defense Authorization Act (NDAA) for Fiscal Year 2018, authorizes Department of Defense organizations to carry out prototype projects that are directly relevant to enhancing the mission effectiveness of military personnel and the supporting platforms, systems, components, or materials proposed to be acquired or developed by the Department of Defense, or to improvement of platforms, systems, components, or materials in use by the armed forces. The law also requires at least one of the following:

(A) There is at least one nontraditional defense contractor or nonprofit research institution participating to a significant extent in the prototype project.

(B) All significant participants in the transaction other than the Federal Government are small businesses (including small businesses participating in a program described under section 9 of the Small Business Act (15 U.S.C. 638)) or nontraditional defense contractors.

(C) At least one third of the total cost of the prototype project is to be paid out of funds provided by sources other than the Federal Government.

A. Prime Contractor: The prime contractor must complete the following table.

<table>
<thead>
<tr>
<th>1. Legal Name:</th>
<th>2. DUNS #:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Point of Contact: Name, Title, Phone #, Email</td>
<td></td>
</tr>
<tr>
<td>4. Prime Contractor is a nontraditional (Y/N)?</td>
<td></td>
</tr>
<tr>
<td>5. Prime Contractor is a nonprofit research institution (Y/N)?</td>
<td></td>
</tr>
<tr>
<td>6. Prime Contractor will provide at least one third of the total cost of the prototype project out of funds provided by sources other than the Federal Government (Y/N)?</td>
<td></td>
</tr>
<tr>
<td>7. Prime Contractor is a small business (Y/N)?</td>
<td></td>
</tr>
</tbody>
</table>

If the prime contractor has answered “Y” to question 4, 5, or 6, skip Section B and proceed to Section C.

B. Subcontractor(s)/Vendor(s): If the prime contractor is a traditional defense contractor and proposes the use of one or more nontraditional defense contractors or nonprofit research institutions, the following information is required for each participating nontraditional defense contractor or nonprofit research institution.

<table>
<thead>
<tr>
<th>8. Legal Name:</th>
<th>9. DUNS #:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Dollar Value to be Awarded to Subcontractor:</td>
<td></td>
</tr>
<tr>
<td>11. Point of Contact: Name, Title, Phone #, Email</td>
<td></td>
</tr>
<tr>
<td>12. Task/Phase:</td>
<td></td>
</tr>
<tr>
<td>13. Subcontractor/Vendor is a nontraditional (Y/N)?</td>
<td></td>
</tr>
<tr>
<td>14. Subcontractor/Vendor is a nonprofit research institution (Y/N)?</td>
<td></td>
</tr>
<tr>
<td>15. Subcontractor/Vendor is a small business (Y/N)?</td>
<td></td>
</tr>
<tr>
<td>16. Significant Contribution:</td>
<td></td>
</tr>
</tbody>
</table>
A - The significant contribution involves developing, demonstrating or providing a key technology. Please describe what the key technology is; why it is key to the medical technology community, and what makes it key.

B - The significant contribution involves developing, demonstrating or providing a new technology that is not readily available. Please describe what the new part or material is and why it is not readily available.

C - The significant contribution involves use of skilled personnel (such as modeling & simulation experience, medical technology design experience, etc.), facilities and/or equipment that are within the capabilities of the designated nontraditional and required to successfully complete the program. Please describe the personnel, facilities and/or equipment involved in the proposed program and why they are required to successfully complete the program.

D - The use of this designated subcontractor/vendor will cause a material reduction in the cost or schedule. Please describe the specific cost or schedule impact to be realized.

E - The use of this designated subcontractor/vendor will increase medical technology performance. Please describe what the performance increase will be attained by the use of this designated nontraditional defense contractor.

---

1. In addition to the above please provide the following information:

| Q1 | What additional capability beyond those described in A through E above does this subcontractor/vendor have that is necessary for this specific effort? |
| A1 | |

| Q2 | In which task/phase(s) of the effort will the subcontractor/vendor be used? |
| A2 | |

| Q3 | What is the total estimated cost associated with the subcontractor/vendor included in the proposal? Note: While cost is an indicator for the level of nontraditional defense contractor participation, there is no particular cost threshold required. |
| A3 | |
C. Signature

_________________________________________________________  ____________________
Signature of authorized representative of proposing Prime Contractor   Date
Warranties and Representations Instructions

Section A must be completed for the Prime Contractor.

1. Insert prime contractor’s legal name.
2. Insert prime contractor’s DUNS #.
3. Insert the Point of Contact (Name, Title, Phone #, Email) for the prime contractor.
4. Indicate Yes (Y) or No (N) if the prime contractor is a nontraditional defense contractor (Note: A nontraditional defense contractor means an entity that is not currently performing and has not performed, for at least the one-year period preceding the issue date of the solicitation, any contract or subcontract for the Department of Defense that is subject to full coverage under the cost accounting standards prescribed pursuant to Section 1502 of Title 41 and the regulations implementing such section.).
5. Indicate Yes (Y) or No (N) if the prime contractor is a nonprofit research institution.
6. Indicate Yes (Y) or No (N) if the prime contractor will provide at least one third of the total cost of the prototype project out of funds provided by sources other than the Federal Government (i.e. will the project contain at least 1/3 cost share).
7. Indicate Yes (Y) or No (N) if the prime contractor is a small business (including small businesses participating in a program described under section 9 of the Small Business Act (15 U.S.C. 638)).

Section B must be completed if the Prime Contractor is traditional and has proposed nontraditional defense contractors, nonprofit research institutions, or small businesses. Copy, paste, and complete the table found in Section B for each participating nontraditional defense contractor, nonprofit research institutions, or small business.

8. Insert subcontractor/vendor’s legal name.
9. Insert subcontractor/vendor’s DUNS #.
10. Insert the dollar value (cost and fee) to be awarded to the subcontractor/vendor.
11. Insert the Point of Contact (Name, Title, Phone #, Email) for the subcontractor/vendor.
12. Indicate in which specific task/phase(s) of the effort will the subcontractor/vendor be used.
13. Indicate Yes (Y) or No (N) if the subcontractor/vendor is a nontraditional defense contractor (Note: A nontraditional defense contractor means an entity that is not currently performing and has not performed, for at least the one-year period preceding the issue date of the solicitation, any contract or subcontract for the Department of Defense that is subject to full coverage under the cost accounting standards prescribed pursuant to Section 1502 of Title 41 and the regulations implementing such section.).
14. Indicate Yes (Y) or No (N) if the subcontractor/vendor is a nonprofit research institution.
15. Indicate Yes (Y) or No (N) if the subcontractor/vendor is a small business (including small businesses participating in a program described under section 9 of the Small Business Act (15 U.S.C. 638)).
16. Explain the subcontractor/vendor’s Significant Contribution to the project by answering the questions below.
A - The significant contribution involves developing, demonstrating or providing a key technology. **Please describe what the key technology is; why it is key to the medical technology community, and what makes it key.**

B - The significant contribution involves developing, demonstrating or providing a new technology that is not readily available. **Please describe what the new part or material is and why it is not readily available.**

C - The significant contribution involves use of skilled personnel (such as modeling & simulation experience, medical technology design experience, etc.), facilities and/or equipment that are within the capabilities of the designated nontraditional and required to successfully complete the program. **Please describe the personnel, facilities and/or equipment involved in the proposed program and why they are required to successfully complete the program.**

D - The use of this designated subcontractor/vendor will cause a material reduction in the cost or schedule. **Please describe the specific cost or schedule impact to be realized.**

E - The use of this designated subcontractor/vendor will increase medical technology performance. **Please describe what the performance increase will be attained by the use of this designated nontraditional defense contractor.**

Q1 - What additional capability beyond those described in A through E above does this subcontractor/vendor have that is necessary for this specific effort?

Q2 - In which task/phase(s) of the effort will the subcontractor/vendor be used?

Q3 - What is the total estimated cost associated with the subcontractor/vendor included in the proposal? Note: While cost is an indicator for the level of nontraditional defense contractor participation, there is no particular cost threshold required.

Section C must be signed by an authorized representative of the prime contractor.

**General Guidance**
- Nontraditional defense contractors can be at the prime level, team members, subcontractors, lower tier vendors, or "intra-company" business units, provided that the business unit makes a significant contribution to the prototype project.
- All nontraditional defense contractors must have a DUNS number.
- A foreign business can be considered a nontraditional if it has a DUNS number and can comply with the terms and conditions of the MTEC Base Agreement.
11 BIDS Instructions

This Page Is Intentionally Left Blank. Please See the Presentations Below.
MTEC BIDS REGISTRATION

MTEC BIDS URL: HTTPS://ATI2.ACQCENTER.COM
Navigate to the MTEC BIDS website and select “New Registration” from the home screen.
Select “Submitter”
Complete the registration form. Be sure to select how you want to receive the dual factor verification code (SMS text message is recommended).

Select “Submit Registration” to complete BIDS registration.
BIDS registration is instantaneous. It does not require any verification by the MTEC team. After successfully registering, you can submit proposals to any open MTEC RPP.

- MTEC Membership will be verified once a proposal is received and after the proposal deadline.
- Updates to submitted documents can be made anytime prior to the due date and time.
- MTEC RPP links will be opened, within BIDS, at least two weeks prior to the submission deadline.

Please note: For RPPs that are two stages (i.e. White Paper to Full Proposal) only the account that submitted the stage 1 proposal (the White Paper) will be allowed to submit for stage 2 (the Full Proposal), if selected.

ALL PROPOSALS MUST BE SUBMITTED BEFORE THE SUBMISSION DUE DATE AND TIME. LATE PROPOSALS CAN NOT BE ACCEPTED.
MTEC BIDS PROPOSAL
SUBMISSION

MTEC BIDS URL:
HTTPS://ATI2.ACQCENTER.COM
Navigate to the MTEC BIDS site and login. After login select the “MTEC BIDS Home” link.
Select the “Respond to RPP” link under the submitter tools

Once logged in, your username will appear here.

Click the link to respond to an RPP.

RPP information is provided in this section. This includes status updates.
Select which RPP you will be responding to.

Select which RPP to respond to. If multiple RPPs are open, they will be listed here.
Complete the submission form.

Shows remaining time before submission close.

Select the technical area you're submitting to as identified in the RPP.
Complete the submission form by uploading the required documents and click submit.

Upload documents in this section.

Once the submission form is completed select submit.
Once you have successfully submitted a proposal, you will receive a notification with your submission number (ex. MTEC-23-24-Everest-045).

• Submission documents can be modified anytime prior to the due date and time from your BIDS account.

• To make changes to your submission, prior to the due date/time, select the submission link from the home page and navigate to your submission.

Please note: For RPPs that are two stages (i.e. White Paper to Full Proposal) only the account that submitted the stage 1 proposal (the White Paper) will be allowed to submit for stage 2 (the Full Proposal), if selected.

ALL PROPOSALS MUST BE SUBMITTED BEFORE THE SUBMISSION DUE DATE AND TIME. LATE PROPOSALS CAN NOT BE ACCEPTED.