Request for Project Information

Solicitation Number: MTEC-23-11-Neurotrauma

“Neurotrauma Diagnosis, Monitoring, and Assessment State of Technology Meeting”

Issued by:
Advanced Technology International (ATI),
MTEC Consortium Manager (CM)
315 Sigma Drive
Summerville, SC 29486
for the
Medical Technology Enterprise Consortium (MTEC)

Request Issue Date: July 24, 2023

Project Information Paper Due Date: September 14, 2023
Noon Eastern Time
The Medical Technology Enterprise Consortium (MTEC) is excited to post this announcement for a Request for Project Information (RPI) focused on the diagnosis, monitoring, and assessment of Traumatic Brain Injury in support of an upcoming State of the Technology Meeting.

**Clinical Problem:**

Traumatic Brain Injury (TBI) is commonly defined as an “alteration of the brain function, or other evidence of brain pathology, caused by an external force.” In military, TBI is characterized as the signature injury of the Operation Iraqi Freedom and Operation Enduring Freedom as 10 - 15% of all veterans experienced at least one TBI during their deployment. In civilians, each year at least 4.8 million people in the United States seek medical care for TBI. Among children, TBI-related injuries account for over 837,000 emergency department visits annually, which include over 16,000 TBI-related hospitalizations, and 2,774 TBI related deaths, as reported in 2020.

Medical community recognized significant gaps in the care of patients with TBI. TBI’s complex pathophysiology is not fully understood, broad defined and outdated classification to mild, moderate and severe TBI significantly hamper our ability to treat TBI patients. Nevertheless, early diagnosis, treatment, monitoring, and maintenance of TBI patients in the acute setting can significantly improve long-term functional outcomes and reduce injury severity.

**Background on the Potential Upcoming State of the Technology Meeting:**

Through MTEC, the U.S. Army Medical Research and Development Command’s (USAMRDC) Neurotrauma group and the Biomedical Advanced Research and Development Authority (BARDA) will host a State of Technology meeting focused on neurotrauma in early calendar year 2024. The goal of this meeting is to understand the state of the technology to: a) better diagnose traumatic brain injury (TBI) at all levels of the continuum of care, b) understand how to monitor patients already diagnosed with TBI, and c) identify new potential products that could be developed into prototypes for the diagnosis, assessment and monitoring of TBI.

Examples of specific areas of interest to be addressed at the State of Technology meeting include, but are not limited to, the following items. These areas of interest are not listed in order of importance:

- Molecular targets for diagnosis of TBI and minimally or non-invasive devices to monitor such markers
- Electrophysiological markers of TBI and minimally or non-invasive devices to monitor such markers
- Minimally or non-invasive devices to monitor progression of the disease
- Artificial intelligence and machine learning to assess endpoints and provide diagnosis and/or treatment guidance
- Minimally or non-invasive disruptive tools and methods to integrate novel systems into the continuum of care from front lines to fixed hospitals

Attendees of the State of Technology meeting are expected to bring an understanding of the types of

---

minimally or non-invasive TBI diagnosis, monitoring, and assessment technologies, and a willingness to share their personal views on the current states of development including pros/cons/limitations associated with each of the various modalities. Attendees of the meeting will also gain exposure to government agencies, their respective portfolios, and potential funding opportunities relevant to TBI diagnosis, monitoring, and assessment. The intended impact of the State of the Technology meeting is to better inform possible future investments by the United States Government to advance specific technologies poised to address unmet needs in TBI care and transform the delivery of care for military and civilian populations.

The meeting organizing panel will develop a State of the Technology Report with the intent for publication following the meeting. The report will recommend next steps to inform strategic direction by USAMRDC and BARDA to continue to lead progress in this space.

**PURPOSE OF THE PROJECT INFORMATION PAPER:**
MTEC is seeking input from both MTEC members and the general public (non-member companies) that are developing solutions for detection, diagnosis and treatment of TBI and its short- and long-term sequelae. **We seek input to gauge interest in attendance/technology presentations and to frame the agenda on areas of concerns, unmet needs, products/technology advancements and limitations, and regulatory challenges from all interested parties, including but not limited to, healthcare providers, neuroscientists, product developers, regulatory experts, and reimbursement strategists.**

This RPI contains background material and guidance for the preparation of Project Information Papers to be submitted to MTEC. **MTEC membership is not required for submission of Project Information Paper.**

**REQUIREMENTS OF THE PROJECT INFORMATION PAPER:**
The intent of this RPI is to understand respondents’ interest and technology capabilities in support of the State of the Technology Meeting’s area of interest. MTEC is seeking input from both MTEC members and non-members via a project information paper to be considered by the panel. Project information papers will be shared with the reviewers under non-disclosure agreements. The MTEC may invite one or more of those who submit project information papers to participate in, or present to, the organizing panel during their convening.

Project Information Papers may be submitted at any time during the submission period but no later than the due date and time specified on the first page of this RPI using BIDS: [https://ati2.acqcenter.com/ATI2/Portal.nsf/Start?ReadForm](https://ati2.acqcenter.com/ATI2/Portal.nsf/Start?ReadForm). See Addendum 2 of this RPI for further information regarding BIDS registration.

**Required Submission Document (1): Submitted via BIDS (5MB or lower per document)**
- Project Information Paper: one Word document (See Addendum 1 of this RPI)

Project Information Papers should NOT include proprietary or classified information. Information obtained through this RPI may be used to develop the State of the Technology meeting’s agenda as well as be included as a component of the final State of the Technology report.
MTEC:
The MTEC mission is to assist the USAMRDC by providing cutting-edge technologies and effective materiel life cycle management to transition medical solutions to industry that protect, treat, and optimize Warfighters’ health and performance across the full spectrum of military operations. MTEC is a biomedical technology consortium collaborating with multiple government agencies under a 10-year renewable Other Transaction Agreement (OTA), Agreement No. W81XWH-15-9-0001, with the U.S. Army Medical Research Acquisition Activity (USAMRAA). MTEC is currently recruiting a broad and diverse membership that includes representatives from large businesses, small businesses, “non-traditional” government contractors, academic research institutions and not-for-profit organizations.

Points of Contact:
For inquiries, please direct your correspondence to the following contacts:
- Technical and membership questions should be directed to the MTEC Research Analyst, Dr. Seth Tomblyn, Ph.D., seth.tomblyn@ati.org
- All other questions should be directed to the MTEC Chief of Consortium Operations, Ms. Kathy Zolman, kathy.zolman@ati.org
Addendum 1
Military Technology Enterprise Consortium (MTEC)
Neurotrauma Diagnosis, Monitoring, and Assessment State of Technology Meeting
Project Information Template

[2-page limit. 12-point Arial font, smaller font may be used in figures and tables, but must be clearly legible. Single-spaced, single-sided, 8.5 inches x 11 inches. Margins on all sides (top, bottom, left, and right) should be at least 0.5 inch. These project information submissions will be shared with the Sponsor; therefore, all information must be nonproprietary. Project Information Paper should be submitted as a Word (*.doc or *.docx) document using the template provided in this RPI.]

Date: [Insert Date of Submission]

Point of Contact: [Insert name, role, organization, email address, phone number]

Answers to the following questions are required:

1) Are you interested in attending the State of Technology meeting? Yes or No

2) Describe any suggestions on specific areas of interest that align with the overall topic of this State of the Technology meeting.

3) Are there any topics for breakout sessions that you would be interested in attending or leading?

4) If you have a specific technology that you would like us to consider for presentation at the meeting, please indicate what type of presentation you wish to be considered for in the table below and include a brief narrative on the technology, its state of development, and how it aligns to the objectives.

<table>
<thead>
<tr>
<th>Technology Objective Areas of Interest</th>
<th>Podium Presentation (Yes/No)</th>
<th>Poster Presentation (Yes/No)</th>
<th>Technology Demonstration (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular targets for diagnosis of TBI and minimally or non-invasive devices to monitor such markers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrophysiological markers of TBI and minimally or non-invasive devices to monitor such markers.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimally or non-invasive devices to monitor progression of the disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Artificial intelligence and machine learning to assess endpoints and provide diagnosis and/or treatment guidance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimally or non-invasive disruptive tools and methods to integrate novel systems into the continuum of care from front lines to fixed hospitals.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MTEC BIDS REGISTRATION

MTEC BIDS URL:
HTTPS://ATI2.ACQCENTER.COM/ATI2/PORTAL.NSF/START?READFORM
Select “New Registration” from the home screen.
Select “Submitter”.

SECURITY NOTICE: Unauthorized attempts to deny service, upload information, change information, or attempt to access a non-public site from this service are strictly prohibited and may be punishable under Title 18 of the U.S. Code to include the Computer Fraud and Abuse Act of 1986 and the National Information Infrastructure Protection Act.
BIDS Registration: 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:
Navigate to the MTEC BIDS site and login. After login select the “MTEC BIDS Home” link.

Login to your BIDS Account.

Then select the “MTEC BIDS Home” link
Select the “Respond to RPP” link under the submitter tools.

Click the link to respond to an RPP.

RPP information is provided in this section. This includes status updates.

Once logged in, your username will appear here.
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 are submitting to as identified in the RPP.
Complete the submission form by uploading the required documents and click submit.

<table>
<thead>
<tr>
<th>File Attachments</th>
<th>Required Files</th>
<th>Agreement</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agreements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Classified Information</td>
<td>I certify no classified information is contained in the information being submitted.</td>
<td>Agree</td>
<td></td>
</tr>
<tr>
<td>*Submitter Agreement</td>
<td>I understand The Government intends to use the Consortium Management Firm, ATI, to assist in the processing of Submitter's proposals to this RFP as indicated in the MTEC Base Agreement. The Consortium Management Firm shall take the necessary steps to protect all proprietary proposal information and shall not use such proprietary information for purposes other than the evaluation of a Submitter's proposal and the subsequent contract administration if the proposal is selected for award. A Submitter's submission indicates concurrence with the aforementioned CMF responsibilities. Additionally, the Government (JSP) to assist in the submitted proposals' evaluation. The CSF will be required to submit the reflecting the effort they will supply to support this RPP. The Submitter's submission of a proposal with the aforementioned Consortium Management Firm responsibilities and the use of CSP.</td>
<td>Agree</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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).

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.