

Request for Project Information



Solicitation Number: MTEC-25-01-Platelet_SoT

**“Platelet and Platelet-like Products
State of the Technology Meeting
Request for Information”**

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: October 7, 2024

Project Information Paper Due Date: November 1, 2024
Noon Eastern Time

The Medical Technology Enterprise Consortium (MTEC) is excited to post this announcement for a Request for Project Information (RPI) focused on understanding the state of the technology of platelets and platelet-like products.

CLINICAL PROBLEM:

Blood-vascular injury is an underlying etiology for many types of injuries and disease, including trauma, radiation injury, select infectious diseases, sepsis, and many more.¹ The persistent blood supply issues and very limited surge capabilities in the U.S. limit both routine and disaster scenario medical care, where blood and blood components are a critical treatment for blood-vascular injury (e.g., hemorrhage, thrombocytopenia, etc.). In addition, the current sustainability issues with the U.S. blood supply will be exacerbated during mass casualty incidents. Some key knowledge and capability gaps include¹:

- Regular blood supply shortages in routine care that are predicted to worsen over time as demand for blood products increase, while donor numbers continue to decrease
- Severely limited capability of the blood system to surge to emergency-level needs
- Limited shelf life and portability of conventional blood components and whole blood
- Poor ability to stop life-threatening extremity, junctional, or internal hemorrhage
- Limited understanding of the implications of using component therapy versus whole blood versus fresh whole blood early resuscitative intervention
- Limited ability to optimize transfusion strategies with attention to setting, patient state, timing, and choice of blood product

In response to these gaps, the United States Government (USG) formed an interagency group to form a strategic plan. The interagency group was comprised of stakeholders from the Department of Defense (DoD); the National Heart, Lung, and Blood Institute (NHLBI) of the National Institutes of Health (NIH); the Biomedical Advanced Research and Development Authority (BARDA); and the National Aeronautics and Space Administration (NASA), which are the primary agencies with major research and development (R&D) programs for micro- and macro-blood-vascular injury and blood product supply and safety. The U.S. Food and Drug Administration (FDA) and the Office of the Assistant Secretary for Health (OASH) share a role pertaining to blood supply safety and availability. Together, this interagency group identified a **critical need for improved capabilities to understand, detect, prevent, mitigate, treat and recover from the pathophysiology that occur along the continuum from blood-vascular injury.**¹ New technologies that are focused on preventing or addressing the underlying pathophysiological mechanisms of blood-vascular injury, and the resulting disorders of metabolism, are anticipated to enhance USG medical preparedness across various operational domains and threat spaces.

¹Reference: *Interagency Strategic Plan for Research and Development to Understand, Prevent, Treat, and Recover from Injury to the Blood-Vascular System 2023*

BACKGROUND ON UPCOMING STATE OF THE TECHNOLOGY MEETING:

Through MTEC, and in support of the Interagency Strategic Plan for Research and Development to Understand, Prevent, Treat, and Recover from Injury to the Blood-Vascular System 2023, the DoD Combat Casualty Care Research Program (CCCRP), the BARDA Radiation/Nuclear Medical Countermeasures Program, and the NHLBI Division of Blood and Blood Diseases intends to host a Platelet and Platelet-like Products State of the Technology Meeting in Bethesda, MD, on February 4-6, 2025. MTEC will notify the scientific community when registration information related to this State of the Technology meeting is available and it will also be posted on the MTEC website.

The purpose of this meeting is to inform the USG and the greater scientific community of innovative research focused on platelet and platelet-like products, in support of current and future military and civilian platelet needs for future large scale combat operations as well as domestic mass casualty and disaster response. Attendees of the State of Technology meeting are expected to bring an understanding of platelet and platelet-like products and their development. They will also gain exposure to government agencies, their respective portfolios, and potential funding opportunities relevant to platelet products. The meeting will give an opportunity for a dynamic exchange of ideas among all participants and provide support to identify and overcome challenges. The intended impact of the State of the Technology meeting is to better inform possible future investments within DoD and across the interagency enterprise to advance specific technologies poised to address unmet needs in the field of platelet products and enhance the standard of care for military and civilian populations. The meeting organizers will develop a State of the Technology Report with the intent for publication following the meeting.

Examples of 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:

- The Biology of Platelets
- Novel platelet and platelet-like products in the settings of trauma, surgical hemorrhage, medical bleeding, traumatic brain injury, non-traumatic extreme vascular dysfunction, etc.
- Role of extracellular vesicles and synthetic nanoparticles
- Ex vivo manufacturing of platelet and platelet-like products
- Clinical trial capabilities including platform capabilities applicable to platelets
- Potency assays or new tools needed to measure the function and efficacy of the platelets or platelet-like product
- Updates on recent clinical trials involving platelets and platelet-like products

PURPOSE OF THE PROJECT INFORMATION PAPER:

MTEC is seeking input from both MTEC members and the general public (non-member companies) that are working in the field of platelet biology and technology development. **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, scientists, 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://submissions2.ati.org/AT12/Portal.nsf/Start?ReadForm>. See **Addendum 2 of this RPI** for further information regarding BIDS registration.

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.

Submission Document(s): Submitted via BIDS (5MB or lower per document)

- **[Required] Project Information Paper: one Word document (See Addendum 1 of this RPI)**
- **[Optional] Quad Chart: one Word document (See Appendix A of this RPI)**

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.

POINT OF CONTACT:

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

- All technical questions should be directed to the MTEC Biomedical Research Associate, Dr. Chuck Hutti, Ph.D., chuck.hutti@ati.org
- All other questions, should be directed to MTEC Program Manager, Evan Kellinger, mtec-sc@ati.org

Addendum 1 – Information Paper Template

Project Information Template
Military Technology Enterprise Consortium (MTEC)
Platelet and Platelet-like Product State of Technology Meeting

[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 Meeting Government Sponsors; 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 [Dates: February 4-6, 2025]?
Yes or No

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

- 3) If you have a specific technology or expertise on a knowledge area that you would like us to consider for presentation at the meeting, please indicate what type of presentation you wish to be considered for:
Poster Presentation? Yes or No
Oral Presentation? Yes or No
Check the topic area that is most relevant
 - Novel platelet and platelet-like products in the settings of trauma, surgical hemorrhage, medical bleeding, traumatic brain injury, non-traumatic extreme vascular dysfunction, etc.
 - Role of extracellular vesicles and synthetic nanoparticles
 - Ex vivo manufacturing of platelet and platelet-like products
 - Clinical trial capabilities including platform capabilities applicable to platelets
 - Potency assays or new tools needed to measure the function and efficacy of the platelets or platelet-like product
 - Updates on recent clinical trials involving platelets and platelet-like products

Provide a brief narrative on your expertise on a knowledge area or your technology, its state of

development, and how it aligns to the objectives.

- 4) The meeting organizers intend to attach an addendum to their final post-meeting report that includes quad charts of technologies related to the topics in this Request for Project Information. If you have a specific technology that you would like us to consider for inclusion in a final report detailing the breadth of technologies available within this focus area, then please use the attached quad chart template. Quad charts should be marked as either public release or confidential. Confidential submissions will be included in a separate addendum for government use only and will not be published publicly. See **Appendix A of this RPI** for template.

Appendix A: Quad Chart Template

PRODUCT OR TECHNOLOGY:

COMPANY NAME & ADDRESS

TECHNICAL/ADMINISTRATIVE POINT OF CONTACT (NAME, EMAIL, PHONE)

Please check one box only:

Confidential information for government use only

Publicly release information

<p>Description of technology: A bullet list (2-3) of the primary scientific challenges being addressed, suggested use for technology and mechanism of action.</p>	<p>Picture or Graphic that Illustrates the research or concept (e.g., data figures, molecule illustrations or processes)</p>
<p>Benefits of proposed technology:</p> <p>Any significant technology development challenges:</p> <p>Anticipated storage or cold chain requirements:</p> <p>Current maturity of Technology (TRL):</p>	<p>Timeline of previous accomplishments and future anticipated major goals/milestones</p>

Addendum 2
BIDS Instructions

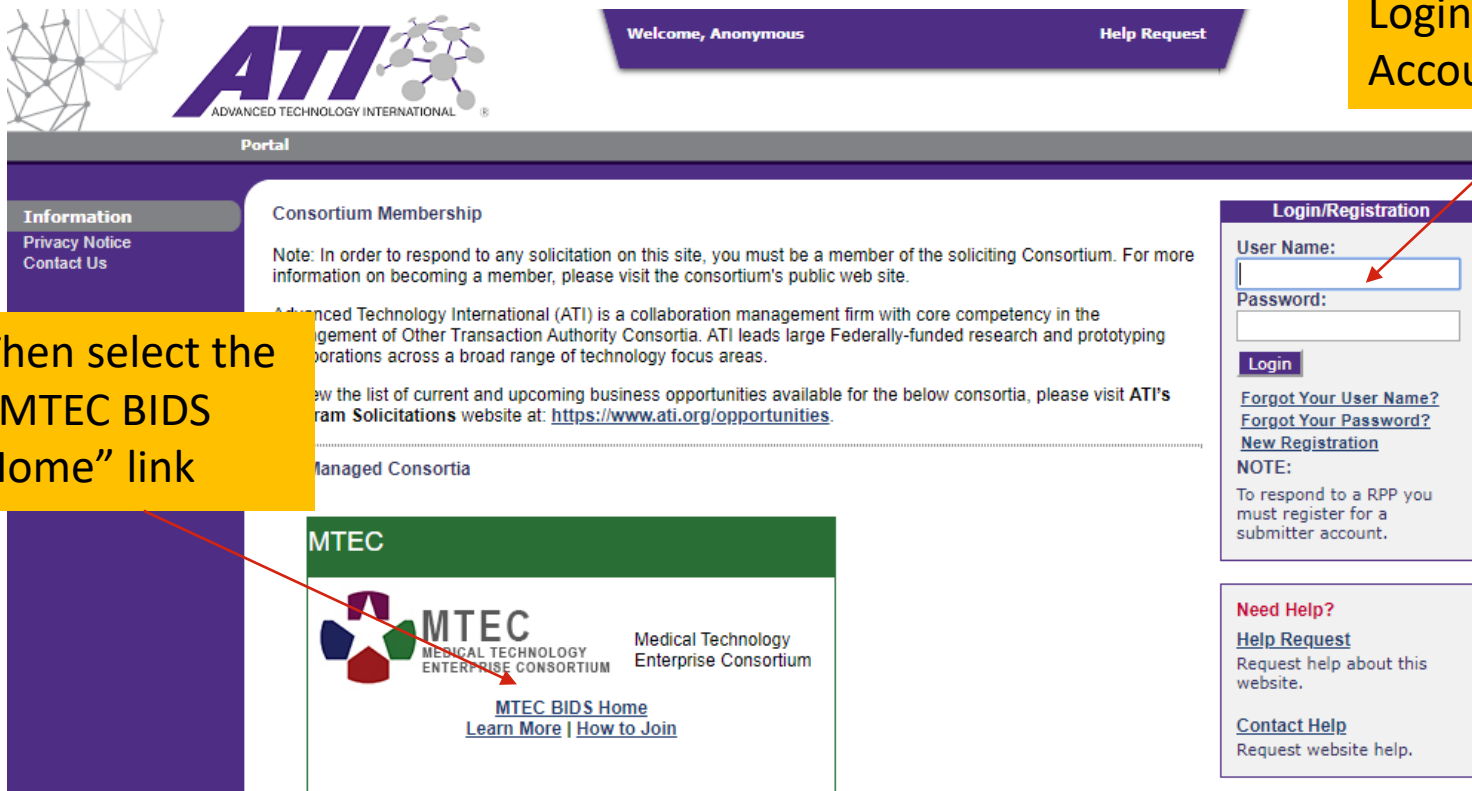
THIS PAGE IS INTENTIONALLY LEFT BLANK. PLEASE SEE THE PRESENTATION BELOW.

MTEC BIDS PROPOSAL SUBMISSION

MTEC BIDS URL:

[HTTPS://AT12.ACQCENTER.COM](https://at12.acqcenter.com)

Navigate to the MTEC BIDS site and login. After login select the “MTEC BIDS Home” link.



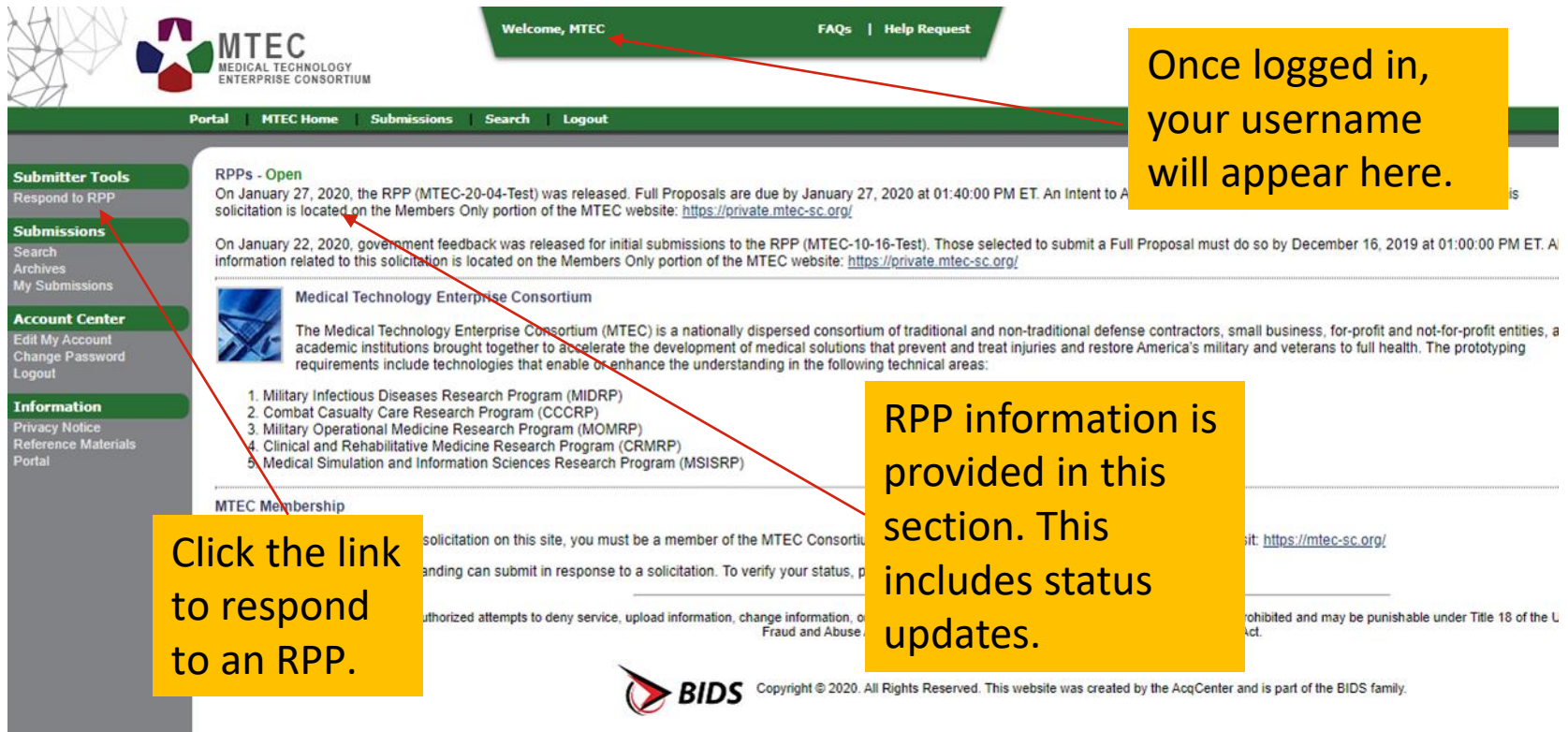
The screenshot shows the MTEC BIDS website interface. At the top, there is a navigation bar with "Welcome, Anonymous" and "Help Request" links. Below this is a "Portal" header. The main content area is divided into several sections: "Information" (Privacy Notice, Contact Us), "Consortium Membership" (Note: In order to respond to any solicitation on this site, you must be a member of the soliciting Consortium. For more information on becoming a member, please visit the consortium's public web site.), "Advanced Technology International (ATI) is a collaboration management firm with core competency in the management of Other Transaction Authority Consortia. ATI leads large Federally-funded research and prototyping operations across a broad range of technology focus areas.", "View the list of current and upcoming business opportunities available for the below consortia, please visit ATI's program Solicitations website at: <https://www.ati.org/opportunities>.", and "Managed Consortia". A prominent yellow box highlights the "MTEC BIDS Home" link under the "Managed Consortia" section, with the text "Then select the 'MTEC BIDS Home' link". To the right, there is a "Login/Registration" section with fields for "User Name:" and "Password:", a "Login" button, and links for "Forgot Your User Name?", "Forgot Your Password?", and "New Registration". A "NOTE:" section below states: "To respond to a RPP you must register for a submitter account." Below this is a "Need Help?" section with links for "Help Request" (Request help about this website.) and "Contact Help" (Request website help.).

Login to your BIDS Account.

Then select the “MTEC BIDS Home” link

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.

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.

Welcome, MTEC FAQs | Help Request

Portal | MTEC Home | Submissions | Search | Logout

Submitter Tools
Respond to RPP
Submissions
Search
Archives
My Submissions
Account Center
Edit My Account
Change Password
Logout
Information
Privacy Notice
Reference Materials
Portal

RPPs - Open
On January 27, 2020, the RPP (MTEC-20-04-Test) was released. Full Proposals are due by January 27, 2020 at 01:40:00 PM ET. An intent to award solicitation is located on the Members Only portion of the MTEC website: <https://private.mtec-sc.org/>

On January 22, 2020, government feedback was released for initial submissions to the RPP (MTEC-10-16-Test). Those selected to submit a Full Proposal must do so by December 16, 2019 at 01:00:00 PM ET. All information related to this solicitation is located on the Members Only portion of the MTEC website: <https://private.mtec-sc.org/>

Medical Technology Enterprise Consortium
The Medical Technology Enterprise Consortium (MTEC) is a nationally dispersed consortium of traditional and non-traditional defense contractors, small business, for-profit and not-for-profit entities, and academic institutions brought together to accelerate the development of medical solutions that prevent and treat injuries and restore America's military and veterans to full health. The prototyping requirements include technologies that enable or enhance the understanding in the following technical areas:


1. Military Infectious Diseases Research Program (MIDRP)
2. Combat Casualty Care Research Program (CCCRP)
3. Military Operational Medicine Research Program (MOMRP)
4. Clinical and Rehabilitative Medicine Research Program (CRM RP)
5. Medical Simulation and Information Sciences Research Program (MSISRP)

MTEC Membership

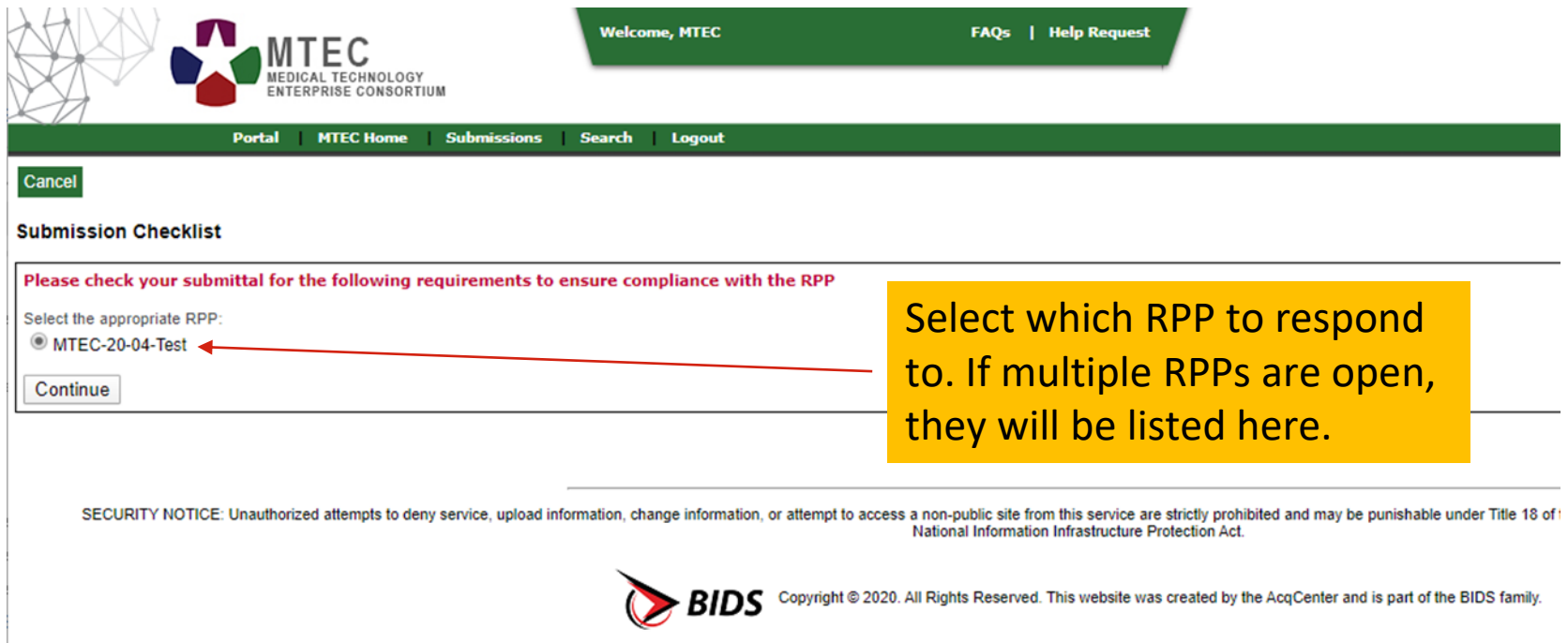
solicitation on this site, you must be a member of the MTEC Consortium. To verify your status, please visit: <https://mtec-sc.org/>

standing can submit in response to a solicitation. To verify your status, please visit: <https://mtec-sc.org/>

authorized attempts to deny service, upload information, change information, or engage in any activity prohibited and may be punishable under Title 18 of the U.S. Code, Chapter 115, Section 2385, Fraud and Abuse of Computer Resources.

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Select which RPP you will be responding to.



The screenshot shows the MTEC submission checklist page. At the top, there is a green navigation bar with the MTEC logo on the left and links for 'Welcome, MTEC', 'FAQs', and 'Help Request' on the right. Below this is a dark green bar with links for 'Portal', 'MTEC Home', 'Submissions', 'Search', and 'Logout'. The main content area has a 'Cancel' button at the top left. Below it is the 'Submission Checklist' section, which contains a red heading: 'Please check your submittal for the following requirements to ensure compliance with the RPP'. Underneath, it says 'Select the appropriate RPP:' followed by a radio button selected for 'MTEC-20-04-Test'. A red arrow points from a yellow callout box to this radio button. A 'Continue' button is located below the radio button. At the bottom of the page, there is a 'SECURITY NOTICE' and the BIDS logo with the text 'Copyright © 2020. All Rights Reserved. This website was created by the AcqCenter and is part of the BIDS family.'

Cancel

Submission Checklist

Please check your submittal for the following requirements to ensure compliance with the RPP


Select the appropriate RPP:

MTEC-20-04-Test

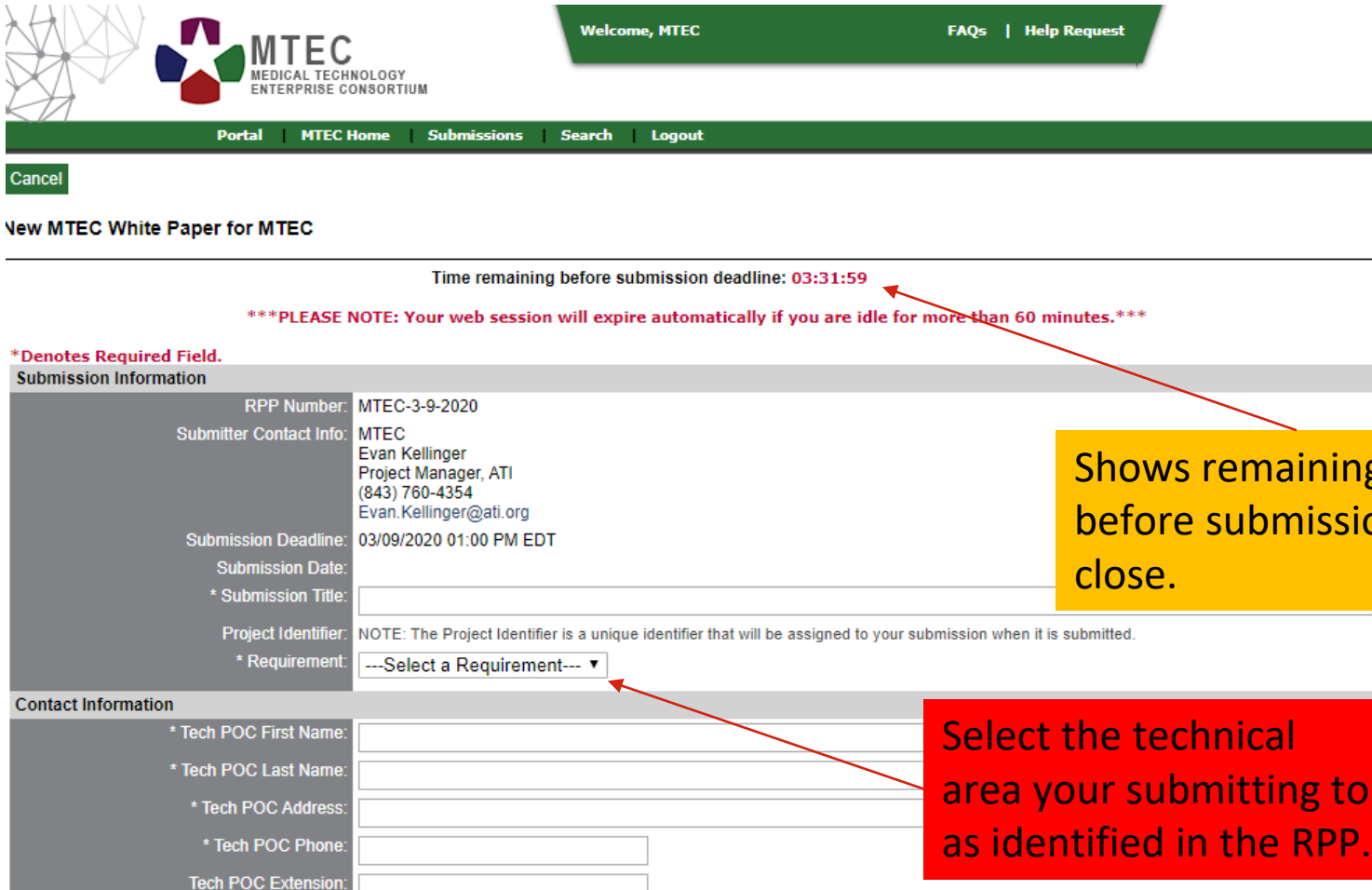
Continue

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

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 National Information Infrastructure Protection Act.

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Complete the submission form.



The screenshot shows the MTEC submission form interface. At the top, there is a green navigation bar with the MTEC logo and text: "Welcome, MTEC" and "FAQs | Help Request". Below this is a secondary green bar with navigation links: "Portal | MTEC Home | Submissions | Search | Logout". A "Cancel" button is visible on the left. The main content area displays "New MTEC White Paper for MTEC" and a countdown timer: "Time remaining before submission deadline: 03:31:59". A red note states: "***PLEASE NOTE: Your web session will expire automatically if you are idle for more than 60 minutes.***". A section titled "*Denotes Required Field." contains the "Submission Information" form. This form includes fields for "RPP Number" (MTEC-3-9-2020), "Submitter Contact Info" (MTEC, Evan Kellinger, Project Manager, ATI, (843) 760-4354, Evan.Kellinger@ati.org), "Submission Deadline" (03/09/2020 01:00 PM EDT), "Submission Date", "* Submission Title" (empty text box), "Project Identifier" (NOTE: The Project Identifier is a unique identifier that will be assigned to your submission when it is submitted.), and "* Requirement" (dropdown menu showing "---Select a Requirement---"). Below this is the "Contact Information" section with fields for "* Tech POC First Name", "* Tech POC Last Name", "* Tech POC Address", "* Tech POC Phone", and "Tech POC Extension". Two callout boxes provide instructions: a yellow box points to the timer with the text "Shows remaining time before submission close.", and a red box points to the requirement dropdown with the text "Select the technical area your submitting to as identified in the RPP."

Proposal Submission BIDS

Complete the submission form by uploading the required documents and click submit.

File Attachments	
Required Files:	White Paper No file uploaded Upload White Paper (Allowed file types: pdf, doc, docx; Size Limit: 5mb)
Agreements	
*Classified Information:	I certify no classified information is contained in the information being submitted. <input type="checkbox"/> Agree
*Submitter Agreement:	I understand The Government intends to use the Consortium Management Firm, ATI, to assist in the processing of Submitter's proposals to this RPP 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 indicates concurrence with the aforementioned CMF responsibilities. Additionally, the Government (CSP) to assist in the submitted proposals' evaluation. The CSP will be required to submit to the Submitter 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. Finally, the Consortium leadership may be provided, at their request, top-level data and metrics on submissions for their use in monitoring the effectiveness of submission processes and the level of participation by members in the RPP. Information will only be released with Government approval. A Submitter's submission under this RPP indicated concurrence with the aforementioned release of information to the Consortium leadership. <input type="checkbox"/> Agree

Upload documents in this section.

Submit

Once the submission form is completed select submit.

SECURITY NOTICE: Unauthorized attempts to deny service, upload, or delete data on this non-public site from this service are strictly prohibited and may be punishable under Title 18 of the U.S. Code to include the National Information Infrastructure Protection Act.

Proposal Submission BIDS

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.