

I. OVERVIEW OF THE FUNDING OPPORTUNITY



DEPARTMENT OF DEFENSE

BROAD AGENCY ANNOUNCEMENT for Extramural Research (Program Specific) for the

Defense Health Program

Congressionally Directed Medical Research Programs

Joint Warfighter Medical Research Program

Military Medical Research and Development Award

Announcement Type: Initial

Funding Opportunity Number: HT942524SJWMRPMMRDA

**Assistance Listing Number: 12.420 Military Medical
Research and Development**

SUBMISSION AND REVIEW DATES AND TIMES

- **Pre-Application/Proposal Submission Deadline:** 5:00 p.m. Eastern time (ET), June 3, 2024
- **Invitation to Submit an Application/Proposal:** July 3, 2024
- **Full Application/Proposal Submission Deadline:** 11:59 p.m. ET, August 29, 2024

This Broad Agency Announcement must be read in conjunction with the General Submission Instructions available for downloading from the Grants.gov funding opportunity announcement by selecting the “Package” tab, clicking “Preview,” and then selecting “Download Instructions.”

- **End of Submission Verification Period:** 5:00 p.m. ET, September 3, 2024
- **Peer Review:** November 2024
- **Programmatic Review:** January 2025

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II. DETAILED INFORMATION ABOUT THE FUNDING OPPORTUNITY

This funding opportunity announcement is a Broad Agency Announcement (BAA) through the Fiscal Year 2024 (FY24) Joint Warfighter Medical Research Program (JWMP) for the Military Medical Research and Development Award (MMRDA). Specific submission information and additional administrative requirements can be found in the document titled “General Submission Instructions,” available in Grants.gov along with this BAA.

This BAA for the JWMP is intended to solicit extramural research and development ideas using the authority provided by United States Code Title 10, Section 4001 (10 USC 4001). This BAA is issued under the provisions of the Competition in Contracting Act (CICA) of 1984 (Public Law 98-369), as implemented in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016 and in Department of Defense Grant and Agreement Regulations (DoDGARs) 22.315. In accordance with FAR 35.016, projects funded under this BAA must be for *applied research* not related to the development of a specific system or hardware procurement. Research and development funded through this BAA is intended and expected to benefit and inform both military and civilian medical practice and knowledge.

The BAA is intended for extramural applicants/offerors only. For definitions and additional information, see [Section II.C.1, Eligible Applicants/Offerors](#). Intramural DOD organizations should use the parallel funding opportunity announcement that is available through the electronic Biomedical Research Application Portal (eBRAP) at <https://eBRAP.org/> under funding opportunity number HT942524JWMPMMRDA to submit applications. The North American Industry Classification System code for contracts under this announcement is 541715-Research and Development in Physical, Engineering, and Life Science (except nanotechnology and Biotechnology) with a small business size standard of 1,000 employees.

II.A. Program Description

The U.S. Army Medical Research Acquisition Activity (USAMRAA) is soliciting applications/proposals to the fiscal year 2024 (FY24) Joint Warfighter Medical Research Program (JWMP) using delegated authority provided by 10 USC 4001. The Congressionally Directed Medical Research Programs (CDMRP) at the U.S. Army Medical Research and Development Command (USAMRDC) is the program management agent for this funding opportunity. Congress initiated the JWMP in 2012 to augment and accelerate high-priority Department of Defense (DOD) and Service medical requirements and to support the logical continuation of DOD-funded research and development initiatives that are close to achieving their objectives and yielding a benefit to military medicine. The ultimate goal of the program is to expedite the delivery of highly impactful and effective medical solutions to Service Members and Military Health System (MHS) beneficiaries; thus the Service advanced product development communities are critical partners in executing the JWMP. Appropriations for the JWMP from FY12 through FY23 totaled \$595 million (M). The FY24 appropriation is \$20M.

Congressional direction stipulates that the funds from the JWMP shall not be used for new projects or for basic research. To be eligible for JWMP funding, applicants/offerors must have

already received DOD core or DOD Congressional Special Interest funding (including DOD Small Business Innovation Research [SBIR]/Small Business Technology Transfer [STTR] awards) for the same project that is being proposed for continuation under this BAA. The funding shall be awarded at DOD discretion following a review of medical research and development gaps as well as unfinanced medical requirements of the Services.

II.A.1. FY24 JWMRP Focus Areas

The JWMRP Programmatic Panel identified the following Focus Areas as the highest priorities for FY24 JWMRP funding to meet critical research and development gaps and Service medical requirements. **To meet the intent of the funding opportunity, applications/proposals to the FY24 JWMRP must address at least one of the Focus Areas listed below.**

- Broad spectrum and/or pathogen agnostic approaches to prevent and/or treat endemic or emerging infectious diseases of high operational impact.
- Preventative capabilities to promote the Warfighter’s physiological and cognitive (1) performance and readiness and (2) injury prevention.
- Solutions for semi-autonomous or autonomous medical care from point of injury across the continuum of care, including support of triage, prolonged patient care, and transport in contested environments.
- Virtual/telehealth and decision support with artificial intelligence solutions to provide combat casualty care/prolonged care.
- Hemorrhage control and resuscitation solutions, including blood and blood products, and anti-shock therapeutics, to enable delivery of life-saving care across the continuum of care.

II.A.2. Award History

JWMRP awards were first offered in FY12. To date, a total of 187 individual projects have received funding.

II.B. Award Information

The MMRDA mechanism is **intended to fund the logical continuation of previously DOD-funded research or development efforts relevant to the above FY24 JWMRP Focus Areas** with the highest potential to augment and accelerate medical product development and health care solutions for active-duty Service Members, their Families, Veterans, and/or the American public. ***Collaboration with DOD organizations is encouraged when this alliance would contribute to the success of the research effort***, and any funds designated for DOD laboratories or activities should be identified in the application/proposal through submission of a “Suggested Intragovernmental/Intramural Budget Form,” [Attachment 15](#). ***Applications/proposals from small businesses and/or partnerships with industry are also encouraged.***

The MMRDA mechanism supports a wide range of research projects, spanning late-stage preclinical studies, late-stage technology development efforts, technology demonstration, and translational research.

A **Clinical Research or Clinical Trial Option** is available to specifically support clinical research/observational studies, all phases of clinical trials/interventional studies, and/or correlative studies in support of the development of promising pharmaceutical or biologic candidates, medical devices, and technologies. **Note:** Applications/proposals submitted under this option will be required to submit additional relevant application/proposal materials.

Clinical research encompasses research with human data, human specimens, and/or interaction with human subjects. Clinical research is observational in nature and includes:

- (1) Research conducted with human subjects and/or material of human origin such as data, specimens, and cognitive phenomena for which an investigator (or co-investigator) does **not** seek to assess the safety, effectiveness, and/or efficacy outcomes of an intervention. Research meeting this definition may include but is not limited to: (a) mechanisms of human disease, (b) diagnostic or detection studies (e.g., biomarker or imaging), (c) health disparity studies, and (d) development of new technologies.
- (2) Epidemiologic and behavioral studies that do **not** seek to assess the safety, effectiveness, and/or efficacy outcomes of an intervention.
- (3) Outcomes research and health services research that do not fit under the definition of clinical trial.

A clinical trial is defined in the Code of Federal Regulations, Title 45, Part 46.102 (45 CFR 46.102) as a research study in which one or more human subjects are prospectively assigned to one or more interventions (which may include a placebo or another control) to evaluate the effects of the interventions on biomedical or behavioral health-related outcomes. **Studies that do not seek to measure safety, effectiveness, and/or efficacy outcome(s) of an intervention are not considered clinical trials.**

Applications/proposals received in response to both the extramural FY24 JWMP MMRDA BAA and the intramural program announcement will be evaluated together and equally considered for funding. The government reserves the right to fund any combination of extramural and/or intramural applications/proposals.

The funding instrument for awards made under the BAA will be assistance agreements, contracts, or Other Transactions. The type of instrument used to reflect the business relationship between the organization and the government is at the discretion of the government, in accordance with the Federal Grant and Cooperative Agreement Act of 1977, as amended, 31 USC 6301-6308, which provides the legal criteria to select a procurement contract or an assistance agreement.

An **assistance agreement** can take the form of a **grant** or **cooperative agreement**. The level of involvement on the part of CDMRP during the project's period of performance is the key factor

in determining whether to award a grant or cooperative agreement. If “no substantial involvement” on the part of CDMRP is anticipated, a grant will be made (31 USC 6304). Conversely, if “substantial involvement” on the part of CDMRP is anticipated, a cooperative agreement will be made (31 USC 6305). Substantial involvement means that, after award, CDMRP staff will assist, guide, coordinate, or participate in project activities.

A **contract** is required when the principal purpose of the instrument is to acquire property or services for the direct benefit or use of the U.S. government (31 USC 6303).

An “**Other Transaction**” (OT) is appropriate to carry out certain prototypes, research, and production projects (10 USC 4021 and 10 USC 4022). Other Transaction authorities were created to provide the flexibility necessary to adopt and incorporate business practices that reflect commercial industry standards and best practices into its award instruments. Follow-on production OTs to a prototype OT agreement are possible.

The award type, along with the start date, will be determined during the negotiation process.

Military Service and U.S. Department of Veterans Affairs (VA) Collaboration:

Applications/proposals from investigators within the military Services and applications/proposals involving multidisciplinary collaborations among academia, industry, the military Services, the VA, and other federal government agencies are highly encouraged. These relationships can leverage knowledge, infrastructure, and access to unique clinical populations that the collaborators bring to the research effort, ultimately advancing research that is of significance to Service Members, their Families, and/or Veterans. If the proposed research relies on access to unique resources or databases, the application/proposal must describe the access at the time of submission and include a plan for maintaining access as needed throughout the proposed research.

Submission Options: Applications/proposals must be submitted under one of the two following options. It is important to choose the option that is most appropriate for the proposed research and to submit all of the documents required for the option selected. Please contact the eBRAP Help Desk (at help@eBRAP.org or 301-682-5507) if there is any question as to which option the applicant/offeror should select.

- **Military Medical Research and Development Award (MMRDA)**, for applications/proposals proposing research that does *not* include human subjects, human biological samples (prospective or retrospective), or human data sets.
- **Military Medical Research and Development Award – Clinical Research or Clinical Trial Option (MMRDA–CRTO)**, for applications/proposals proposing research that includes any human subjects, human biological samples (prospective or retrospective), or human data sets.

The anticipated total costs budgeted for the entire period of performance for an FY24 MMRDA]should not exceed **\$2,000,000**, or **\$3,400,000** for the MMRDA–CRTO. Refer to [Section II.D.5, Funding Restrictions](#), for detailed funding information.

Awards supported with FY24 funds will be made no later than September 30, 2025.

The CDMRP expects to allot approximately \$7.4M to fund approximately two MMRDAs and one MMRDA–CRTO. Funding of applications/proposals received is contingent upon the availability of federal funds for this program, the number of applications/proposals received, the quality and merit of the applications/proposals as evaluated by peer and programmatic review, and the requirements of the government. Funds to be obligated on any award resulting from this funding opportunity will be available for use for a limited time period based on the fiscal year of the funds. It is anticipated that awards made from this FY24 funding opportunity will be funded with FY24 funds, which will expire for use on September 30, 2030.

I.C. Eligibility Information

I.C.1. Eligible Applicants/Offerors

I.C.1.a. Organization

Applications/proposals for this BAA may only be submitted by extramural organizations, including foreign or domestic organizations, for-profit and non-profit organizations, and public entities. Submissions from intramural DOD organizations to this BAA will be withdrawn.

Extramural Organization: An eligible non-DOD organization. Examples of extramural organizations include academic institutions, biotechnology companies, foundations, federal government organizations other than the DOD (i.e., intragovernmental organizations), and research institutes.

Intramural DOD Organization: Refers specifically to DOD organizations including DOD laboratories, DOD military treatment facilities, and/or DOD activities embedded within a civilian medical center.

Applications/proposals with Principal Investigators (PIs) employed by intramural DOD organizations may be submitted extramurally through a research foundation. It is also permissible for an intramural DOD investigator to be named as a collaborator on an application/proposal submitted through an extramural organization. In this case, the application/proposal must include a letter from the collaborator's Commander or Commanding Officer at the intramural organization that authorizes the collaborator's involvement.

In accordance with DoDI 5000.77 and FAR 35.017, Federally Funded Research and Development Centers (FFRDCs) are not eligible to directly receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible organizations are allowed as long as they are permitted under the sponsoring agreement between the federal government and the specific FFRDC.

Awards are made to eligible *organizations*, not to individuals. Refer to the General Submission Instructions, Appendix 1, for additional recipient qualification requirements.

II.C.1.b. Principal Investigator

Independent investigators at all academic levels (or equivalent) are eligible to be named by the organization as the PI in the application/proposal.

There are no limitations on the number of applications/proposals for which an investigator may be named as a PI.

An eligible PI, regardless of ethnicity, nationality, or citizenship status, must be employed by or affiliated with an eligible organization.

II.C.2. Cost Sharing

Cost sharing/matching is not an eligibility requirement for contracts or assistance agreements but may exist if research OT or prototype OT is the selected funding instrument. Cost-sharing requirements for OTs are stated in 10 USC 4021 for research OTs and 10 USC 4022 for prototype OTs.

II.C.3. Other

Organizations must be able to access **.gov** and **.mil** websites in order to fulfill the financial and technical deliverable requirements of the award and submit invoices for payment.

Use of the System for Award Management (SAM): To protect the public interest, the federal government ensures the integrity of federal programs by striving to conduct business only with responsible organizations. The USAMRDC uses the “Exclusions” within the Performance Information functional area of the SAM and the “Responsibility and Qualifications” within the Entity Information functional area of the SAM to verify that an organization is eligible to receive federal awards. More information about SAM is available at <https://sam.gov/SAM/>. Refer to the General Submission Instructions, Section IV.A.1, for additional information.

Conflicts of Interest (COIs): All awards must be free of COIs that could bias the research results. Prior to award of a contract, applicants/offerors will be required to disclose all potential or actual COIs along with a plan to manage them. An award may not be made if it is determined by the USAMRAA Grants/Contracting/Agreements Officer that COIs cannot be adequately mitigated. Refer to the General Submission Instructions, Appendix 1, Section D, for additional information.

Review of Risk: The following areas may be reviewed in evaluating the risk posed by an applicant/offeror: financial stability; quality of management systems and operational controls; history of performance; reports and findings from audits; ability to effectively implement statutory, regulatory, or other requirements imposed on non-federal entities; degree of institutional support; integrity; adequacy of facilities; and conformance with safety and environmental.

Subcontracting Plan: If the resultant award is a contract that exceeds \$750,000 and the offeror is other than a small business, the contractor will be required to submit a subcontracting plan for small business and small disadvantaged business concerns, in accordance with FAR 19.7,

Defense Federal Acquisition Regulation Supplement (DFARS) 219.7. A mutually agreeable plan will be developed during the award negotiation process and incorporated as part of the resultant contract.

Refer to [Section II.H.1, Administrative Actions](#), for a list of administrative actions that may be taken if a pre-application/proposal or full application proposal does not meet the administrative, eligibility, or ethical requirements defined in this BAA.

II.D. Application/Proposal and Submission Information

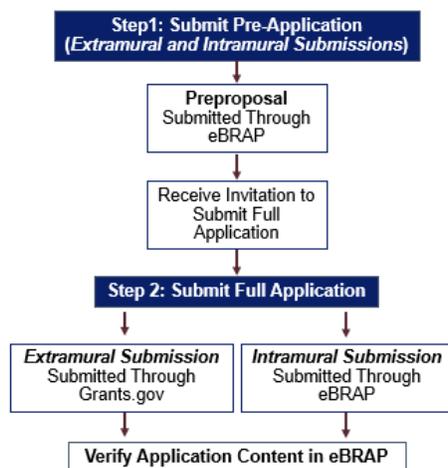
II.D.1. Location of Application/Proposal Package

Submission is a two-step process requiring both a *pre-application/proposal* submitted via eBRAP.org and a *full application/proposal* submitted through Grants.gov.

The CDMRP uses two portal systems to accept pre- and full application/proposal submissions.

eBRAP (<https://ebrap.org>) is a secure web-based system that allows PIs and/or organizational representatives to receive communications from the CDMRP and submit their pre-applications/proposals. Additionally, eBRAP allows applicants/offerors to view and verify full applications/proposals submitted to Grants.gov.

Grants.gov (<https://grants.gov>) is a federal system that must be used by funding agencies to announce extramural grant opportunities. Full applications/proposals for CDMRP funding opportunities can only be submitted to Grants.gov after submission of a pre-application/proposal through eBRAP.



Extramural Submission: An application/proposal submitted by an [extramural organization](#) for an extramural or intramural PI working within an extramural or intramural DOD organization. For example, a research foundation submitting an application/proposal for a DOD employee working within a DOD organization would be considered an extramural submission and should follow instructions specific to extramural submissions. Download application/proposal package

components for HT942524SJWMRPMMRDA from Grants.gov (<https://grants.gov>). Pre-application/proposal content and forms must be accessed and submitted through eBRAP (<https://ebrap.org>). Full application/proposal packages must be accessed and submitted through Grants.gov.

Intramural Submission (*Disallowed for this funding opportunity*): An application/proposal submitted by an [intramural DOD organization](#) for an investigator employed by that organization. Intramural DOD organizations should submit full applications/proposals under funding opportunity number HT942524JWMRPMMRDA.

The submission process should be started early to avoid missing deadlines. Regardless of submission type or portal used, all pre- and full application/proposal components must be submitted by the deadlines stipulated on the first page of this BAA. There are no grace periods for deadlines; failure to meet submission deadlines will result in application/proposal rejection. ***The USAMRAA cannot make allowances/exceptions for submission problems encountered by the applicant/offeror organization using system-to-system interfaces with Grants.gov.***

II.D.2. Content and Form of the Application/Proposal Submission

Applications/proposals that propose essentially the same research project to different funding opportunities within the same program and fiscal year is prohibited and will result in administrative withdrawal of the duplicative application(s)/proposal(s).

Unnecessary duplication of funding or accepting funding from more than one source for the same research, is prohibited. See CDMRP's full position on research duplication at <https://cdmrp.health.mil/funding/researchDup>.

Including classified research data within the application/proposal and/or proposing research that may produce classified outcomes, or outcomes deemed sensitive to national security concerns, may result in application/proposal withdrawal. Refer to the General Submission Instructions, Appendix 7, Section B.

FY24 JWMRP Programmatic Panel members should not be involved in any pre-application/proposal or full application/proposal. For questions related to panel members involvement, refer to [Section II.H.2.c, Withdrawal](#), or contact the eBRAP Help Desk at help@eBRAP.org or 301-682-5507.

II.D.2.a. Step 1: Pre-Application/Proposal Submission

All pre-application/proposal components must be submitted by the PI through eBRAP.

During the pre-application/proposal process, eBRAP assigns each submission a unique log number. This unique log number is required during the full application/proposal submission process. The eBRAP log number, application/proposal title, and all information for the PI, Business Official(s), performing organization, and contracting organization must be consistent throughout the entire pre-application/proposal and full application/proposal submission process. Inconsistencies may delay application/proposal processing and limit or negate the ability to view, modify, and verify the application/proposal in eBRAP. If any changes need to be made, the

applicant/offeror should contact the eBRAP Help Desk at help@eBRAP.org or 301-682-5507 prior to the full application/proposal submission deadline.

To begin the pre-application/proposal process, first select whether the submitting organization is extramural or intramural, then confirm your selection or cancel. **Note: Applications/proposals for the MMRDA may only be submitted by extramural organizations.** Submissions from intramural DOD organizations to the MMRDA will be withdrawn. If an error has been made in the selection of extramural versus intramural and the pre-application/proposal submission deadline has passed, the applicant/offeror or Business Official must contact the eBRAP Help Desk at help@eBRAP.org or 301-682-5507 to request a change in designation.

When starting the pre-application/proposal, applicants/offerors will be asked to select a “Mechanism Option”. Please be sure to select the correct option appropriate to your pre-application/proposal:

Application/Proposal Includes:	Select Option:
NO human subjects, human biological samples (prospective or retrospective), or human data sets	Military Medical Research and Development Award (MMRDA)
Any human subjects, human biological samples (prospective or retrospective), or human data sets	Military Medical Research and Development Award – Clinical Research or Clinical Trial Option (MMRDA–CRTO)

II.D.2.a.i. Pre-Application/Proposal Components

Pre-application/proposal submissions must include the following components posted in eBRAP (refer to the General Submission Instructions, Section III.A, for additional information on pre-application/proposal submission):

- **Pre-Application Template (six-page limit):** Download and provide responses to the questions in the **FY24 JWMRP Pre-Application Template**. Refer to the *Clinical Trial and Technology/Knowledge Readiness Level Definitions* (see [Appendix 2](#)). No figures, charts, graphs, or other additional material will be accepted during the pre-application/proposal process.

Note: Upload the completed Pre-Application Template as a single PDF file.

II.D.2.a.ii. Pre-Application/Proposal Screening Criteria

To determine the technical merits of the pre-application/proposal and the relevance to the mission of the Defense Health Program (DHP) and the JWMRP, pre-applications/proposals will be screened based on the following criteria:

- Whether the pre-application/proposal describes the continuation of a prior year effort that is ongoing/active at the time of pre-application/proposal submission or that was completed no more than 2 years prior to the pre-application/proposal submission deadline.

- Whether the pre-application/proposal describes the continuation of a prior year effort that has already achieved a Technology Readiness Level (TRL)/Knowledge Readiness Level (KRL) of 5 or greater (see [Appendix 2](#) for *Clinical Trial and Technology/Knowledge Readiness Level Definitions*).
- Whether the PI for the proposed follow-on effort is the same as the PI of the prior year effort described in the pre-application/proposal.
- How well the pre-application/proposal describes a follow-on effort that is a logical continuation of a previously funded, prior year research or materiel/knowledge product development effort, while avoiding interdependency of aims.
- How well the proposed research or development effort addresses one or more of the [FY24 JWMRP Focus Areas](#).
- Relative potential of the proposed effort to augment and/or accelerate clinical, technical, or materiel/knowledge product development with a clear benefit to military medicine.
- How well the pre-application/proposal adequately describes the products or deliverables expected from the proposed follow-on effort and any associated challenges.
- How well the regulatory strategy, commercialization strategy, and the estimated TRL/KRL demonstrates the transition potential of the anticipated product/outcome.

II.D.2.a.iii. Notification of Pre-Application/Proposal Screening Results

Following the pre-application/proposal screening, PIs will be notified as to whether they are invited to submit full applications/proposals. The estimated date when PIs can expect to receive notification of an invitation to submit a full application/proposal is indicated in [Section I, Overview of the Funding Opportunity](#). No feedback (e.g., a critique of the pre-application's/proposal's strengths and weaknesses) is provided at this stage. Because the invitation to submit a full application/proposal is based on the contents of the pre-application/proposal, investigators should not change the title or research objectives after the pre-application/proposal is submitted.

II.D.2.b. Step 2: Full Application/Proposal Submission

II.D.2.b.i. Full Application/Proposal Submission Type

Full applications/proposals *must* be submitted through Grants.gov Workspace. Full /proposals from extramural organizations, including non-DOD federal organizations, received through eBRAP will be withdrawn. Refer to the General Submission Instructions, Section IV, for considerations and detailed instructions regarding full application/proposal submission.

II.D.2.b.ii. Full Application/Proposal Submission Components

Each application/proposal submission must include the completed full application/proposal package for this BAA. See [Section II.H.2](#) of this BAA for a checklist of the required application/proposal components.

(a) SF424 Research & Related Application for Federal Assistance Form: Refer to the General Submission Instructions, Section IV.B.(a), for detailed information.

(b) Attachments:

Each attachment to the full application/proposal components must be uploaded as an individual file in the format specified and in accordance with the formatting guidelines listed in the General Submission Instructions, Appendix 2.

- **Attachment 1: Project Narrative (20-page limit): Upload as “ProjectNarrative.pdf”.** The page limit of the Project Narrative applies to text and non-text elements (e.g., figures, tables, graphs, photographs, diagrams, chemical structures, drawings) used to describe the project. Inclusion of URLs (uniform resource locators) that provide additional information that expands the Project Narrative and could confer an unfair competitive advantage is prohibited and may result in administrative withdrawal of the application/proposal.

Describe the proposed project in detail using the outline below.

- Describe the previously funded research or materiel/knowledge product development effort identified in the notification of invitation, including a description of the accomplishments and outcomes from that award. Explain how this proposed effort is a logical continuation of the previous research or materiel/knowledge product development effort.
- Explain how the research has the potential to augment and/or accelerate medical product development in at least one of the [FY24 JWMP Focus Areas](#).
- Present the scientific rationale behind the proposed research or materiel/knowledge product development effort, including relevant literature citations, preliminary data, and/or preclinical data that led to the development of the proposed research, to support feasibility. Preliminary data may be published or unpublished. Any unpublished preliminary data provided should originate from the laboratory of the PI or member(s) of the collaborating team.
- Describe previous experience among members of the project team most pertinent to the proposed research.
- Clearly demonstrate that there is sufficient scientific evidence to support moving into the proposed stage of research.

- As applicable to the proposed research, provide a summary of relevant studies, clinical studies or clinical trials, and distinguish how the proposed study differs from other relevant or recently completed research or clinical trials. If applicable, include a discussion of any current clinical use of the intervention under investigation and/or details of its study in clinical trials for other indications.
- **Hypotheses/Objectives:** State the hypotheses to be tested and/or the objective(s) to be reached.
- **Specific Aims:** Concisely explain the project’s specific aims. These aims should agree with the primary aims and associated tasks described in the Statement of Work (SOW). If this application/proposal is part of a larger study, present only tasks that this award would fund. Avoid interdependency of specific aims when possible (i.e., dependency on successful outcomes of other ongoing related research efforts).
- **Research Strategy and Feasibility:**
 - Describe the experimental design, methods, and analyses, including appropriate controls, choice of animal model (if applicable), and the endpoints/outcome measures to be used, in sufficient detail for evaluation of feasibility and effectiveness in supporting completion of the project aims.
 - Applications/proposals that include research on animal models are also required to submit [Attachment 8, Animal Research Plan](#).
 - Applications/proposals that include any human subjects, human biological samples (prospective or retrospective), or human data sets are also required to submit [Attachment 10, Human Subjects/Sample Acquisition and Safety Procedures](#).
 - If the proposed research involves access to active-duty military and/or VA patient populations and/or DOD or VA resources or databases, describe the access at the time of submission and include a plan for maintaining access as needed throughout the proposed research. Refer to the General Submission Instructions, Appendix 4, for additional considerations.
 - Describe potential problem areas and discuss alternative methods/approaches that may be employed to overcome them, including interdependency of aims (i.e., dependency on successful outcomes of other ongoing related research efforts).

For applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’:

- Provide detailed plans for initiating and conducting the clinical study or trial during the course of this award. Describe the type of clinical study or trial to be performed (e.g., observational, treatment, prevention, diagnostic), the phase of trial and/or class of device (as appropriate), and the study model (e.g., single group, parallel, crossover).

- Identify and describe the hypothesis/intervention to be studied and the projected outcomes.
 - Define the study variables and how they will be measured. Include a description of appropriate controls and the endpoints to be tested.
 - Provide a brief description of the study population, criteria for inclusion/exclusion, and the methods that will be used for recruitment/accrual of human subjects, samples, and/or human data sets.
 - Describe measures that will be taken to reduce bias, such as blinding of subjects, clinicians, data analysts, and/or others during the study.
 - Discuss risk/benefit considerations, including a clear and detailed description of potential ethical issues raised by the proposed study, and a detailed plan for how the ethical issues will be addressed.
 - Document the availability and accessibility of the drug/compound, device, or other materials needed for the duration of the proposed study and describe how quality control will be addressed.
 - Describe the potential for subject loss to follow-up, and how such loss will be handled/mitigated.
- **Data and Statistical Analysis Plan:**
- Describe how data will be collected and analyzed in a manner that is consistent with the study objectives. If applicable, include a complete power analysis to demonstrate that the sample size is appropriate to meet the objectives of the study. Specify the approximate number of human subjects/samples that will be accrued, if applicable. If multiple study sites are involved for human subject recruitment, state the approximate number to be enrolled at each site.
 - Describe how data will be reported and how it will be assured that the documentation will support a regulatory filing with the U.S. Food and Drug Administration (FDA), if applicable.
- **Study Personnel:** Identify the key members of the study team and describe their roles on the project, including sufficient clinical and/or statistical expertise. For studies involving human subjects, an independent research monitor (external to the study), study coordinator(s), and statistician should be included as applicable.
- **Attachment 2: Supporting Documentation: Combine and upload as a single file named “Support.pdf”.** Start each document on a new page. The Supporting Documentation attachment should not include additional information such as figures, tables, graphs, photographs, diagrams, chemical structures, or drawings. These items should be included in the Project Narrative.

There are no page limits for any of these components unless otherwise noted. Include only those components described below; inclusion of items not requested or viewed as an extension of the Project Narrative will result in the removal of those items or may result in administrative withdrawal of the application/proposal.

- **References Cited:** List the references cited (including URLs, if available) in the Project Narrative using a standard reference format.
- **List of Abbreviations, Acronyms, and Symbols:** Provide a list of abbreviations, acronyms, and symbols.
- **Facilities, Existing Equipment, and Other Resources:** Describe the facilities and equipment available for performance of the proposed project and any additional facilities or equipment proposed for acquisition at no cost to the award. Indicate whether government-furnished facilities or equipment are proposed for use. If so, reference should be made to the original or present government award under which the facilities or equipment items are now accountable. There is no form for this information.
- **Publications and/or Patents:** Include a list of relevant publication URLs and/or patent abstracts. If articles are not publicly available, then copies of up to five published manuscripts may be included in Attachment 2. Extra items will not be reviewed.
- **Letters of Organizational Support:** Provide a letter (or letters, if applicable) signed by the Department Chair or appropriate organization official, confirming the laboratory space, equipment, and other resources available for the project. Letters of support not requested in this BAA, such as those from members of Congress, do not impact application/proposal review or funding decisions.
- **Letters of Collaboration (if applicable):** Provide a signed letter from each collaborating individual and/or organization demonstrating that the PI has the support and resources necessary for the proposed work. If an investigator at an intramural DOD organization is named as a collaborator on a full application/proposal submitted through an extramural organization, the application/proposal must include a letter from the collaborator’s Commander or Commanding Officer at the intramural DOD organization authorizing the collaborator’s involvement.
- **Intellectual Property:** Information can be found in the 2 CFR 200.315, “Intangible Property.”
 - **Background and Proprietary Information:** Provide a list of all background intellectual property to be used in the project or provide a statement that none will be used. All software and data first produced under the MMRDA are subject to a federal purpose license. Therefore, it is important to disclose/list any intellectual property (software, data, patents, etc.) that will be used in performance of the project. If applicable, all proprietary information to be provided to the

government should be stated and identified; the applicant/offeror should indicate whether a waiver of the federal purpose license will be required.

- **Intellectual and Material Property Plan (*if applicable*):** Provide a plan for resolving intellectual and material property issues among participating organizations.
- **Data and Research Resources Sharing Plan:** Describe the type of data or research resources to be made publicly available as a result of the proposed work. Describe how data and resources generated during the performance of the project will be shared with the research community. Include the name of the repository(ies) where scientific data and resources arising from the project will be archived, if applicable. If a public repository will not be used for data or resource sharing, provide justification. Provide a milestone plan for data/results dissemination including when data and resources will be made available to other users, including dissemination activities with a particular focus on feeding back the data to affected communities. Refer to CDMRP’s Policy on Data & Resources Sharing located on the eBRAP “Funding Opportunities & Forms” web page <https://ebrap.org/eBRAP/public/Program.htm> for more information about CDMRP’s expectations for making data and research resources publicly available.
- **Quad Chart:** Provide a Quad Chart for the proposed project. The format for the quad chart is available on the eBRAP “Funding Opportunities & Forms” web page at (<https://ebrap.org/eBRAP/public/Program.htm>).
- **Use of DOD Resources (*if applicable*):** Provide a letter of support signed by the lowest-ranking person with approval authority confirming access to active-duty military populations and/or DOD resources or databases.
- **Use of VA Resources (*if applicable*):** Provide a letter of support signed by the VA Facility Director(s) or individual designated by the VA Facility Director(s), such as the Associate Chief of Staff for Research and Development (ACOS/R&D) or Clinical Service Chief, confirming access to VA patients, resources, and/or VA research space. If the VA-affiliated non-profit corporation is not identified as the contracting organization for administering the funds, include a letter from the VA ACOS/R&D confirming this arrangement and identifying the institution that will administer the funds associated with the proposed research.
- **Attachment 3: Technical Abstract (one-page limit): Upload as “TechAbs.pdf”.** The technical abstract is used by all reviewers. ***Abstracts of all funded research projects will be posted publicly.*** Use only characters available on a standard QWERTY keyboard. Spell out all Greek letters, other non-English letters, and symbols. Graphics are not allowed.

Technical abstracts should be written using the outline below. Clarity and completeness within the space limits are highly important.

- **Background:** State how the proposed research addresses at least one of the [FY24 JWMP Focus Areas](#). Present the scientific rationale behind the proposed work. Include the current TRL/KRL of the product or knowledge outcome (must be 5 or greater), and the estimated target TRL/KRL upon completion of the proposed research (see [Appendix 2](#) for *Clinical Trial and Technology/Knowledge Readiness Level Definitions*).
- **Hypothesis/Objective:** State the hypothesis to be tested or the objective to be reached.
- **Specific Aims:** State the specific aims of the study.
- **Study Design:** Briefly describe the study design including appropriate controls.
- **Impact:** Highlight the likely contributions of the initiative to augment and/or accelerate a materiel/knowledge product development effort. Briefly explain how the proposed project will have an immediate or potential long-term benefit that may lead to a major impact on the health and well-being of Service Members, their Families, Veterans, and/or the American public.
- **Attachment 4: Lay Abstract (one-page limit): Upload as “LayAbs.pdf”.** The lay abstract is used by all reviewers, and addresses issues of particular interest to the affected community. *Abstracts of all funded research projects will be posted publicly.* Use only characters available on a standard QWERTY keyboard. Spell out all Greek letters, other non-English letters, and symbols. Graphics are not allowed. *Do not duplicate the technical abstract.*

Lay abstracts should address the points outlined below *in a manner that will be readily understood by readers without a background in science or medicine*. Avoid overuse of scientific jargon, acronyms, and abbreviations.

- Summarize the objectives and rationale for the proposed research.
- What population will the research help, and how will it help them?
- What are the potential applications, benefits, and risks of the anticipated outcomes?
- What are the likely contributions of the proposed research project to advancing research, patient care, and/or quality of life?
- **Attachment 5: Statement of Work (six-page limit): Upload as “SOW.pdf”.** Refer to the eBRAP “Funding Opportunities & Forms” web page (<https://ebrap.org/eBRAP/public/Program.htm>) for the suggested SOW format and recommended strategies for assembling the SOW.

For the MMRDA, refer to either the “Example: Assembling a Generic Statement of Work” or “Example: Assembling a Clinical Research and/or Clinical Trial Statement of Work”, whichever example is most appropriate for the proposed effort, for guidance on

preparing the SOW. Use the “Suggested SOW Format” to develop the SOW for the proposed research. Submit as a PDF.

- **Attachment 6: Impact Statement (two-page limit): Upload as “Impact.pdf”.**

Explain why the proposed research or materiel/knowledge product development effort is important and relevant to the role of the JWMP in addressing high-priority DOD medical requirements and capability gaps and accelerating the development of products that will impact the Warfighter within the context of the [FY24 JWMP Focus Area\(s\)](#) being addressed.

 - ***Describe the potential impact on civilian and military populations:*** Provide information about the incidence and/or prevalence of the disease or condition in the civilian population, as well as in Service Members, their Families, and/or Veterans. Explain how the knowledge, technologies, or products gained from the research could be implemented in a dual-use capacity to benefit the civilian population and address the health care needs of Service Members, their Families, and/or Veterans, as appropriate. Describe how the research will result in faster and/or better delivery of health care solutions for the Warfighter.
 - ***Describe the short-term impact:*** Detail the anticipated short-term outcome(s)/ product(s) (knowledge and/or materiel) that will be directly attributed to the results of the proposed research or materiel/knowledge product development effort and describe how they will impact the relevant populations. Describe how the study will augment and/or accelerate product development, as applicable.
 - ***Describe the long-term impact:*** Explain the anticipated long-term gains from this research and describe how they may impact the health and readiness of Warfighters. Compare to the information known/products currently available, as applicable.
- **Attachment 7: Transition Plan (three-page limit): Upload as “Transition.pdf”.**

Describe/discuss the methods and strategies proposed to move the product/knowledge/ intervention to the next phase of development (clinical trials, commercialization, and/or delivery to the civilian or military market) after successful completion of the award. Demonstrate how the proposed product or knowledge outcome is currently at a minimum TRL or KRL of 5 and estimate the target TRL/KRL upon completion of the proposed research (see [Appendix 2](#) for ***Clinical Trial and Technology/Knowledge Readiness Level Definitions***). Applicants/offerors are encouraged to work with their organization’s Technology Transfer Office (or equivalent) to develop the transition plan. PIs are encouraged to explore developing relationships with industry and/or other funding agencies to facilitate moving the product into the next phase of development. The plan for post-award transition of the anticipated research outcomes should include the components listed below, as appropriate and applicable to the research proposed.

 - A description of the funding strategy to transition to the next level of development and/or commercialization. Include details of partnerships with DOD organizations, small business, and/or industry, as well as other resources, including specific funding opportunities or other financial support, that will be used to provide continuity of

- development. Include a statement as to whether there is a commercial market for the product/knowledge/ intervention or if the anticipated medical solutions are specific for a military market.
- For knowledge products, a description of collaborations and other resources that will be used to provide continuity of development, including proposed development or modification of clinical practice guidelines (CPGs) and recommendations, provider training materials, patient brochures, and other clinical support tools, scientific journal publications, models, simulations, and applications. (A “knowledge product” is a non-materiel product that addresses an identified need, topic area, or capability gap, is based on current evidence and research, aims to transition into medical practice, training, tools, or to support materiel solutions [systems to develop, acquire, provide, and sustain medical solutions and capabilities], and educates or impacts behavior throughout the continuum of care, including primary prevention of negative outcomes.)
 - A brief schedule and milestones for transitioning the anticipated research outcomes to the next phase of development (i.e., next-phase clinical trials, commercialization/ transition to industry, delivery to market, incorporation into clinical practice, and/or approval by a Regulatory Agency). Describe the steps necessary to adapt and transition the civilian product/knowledge/intervention for military fielding/adoption/use.
 - Ownership rights/access to the intellectual property necessary for the development and/or commercialization of products or technologies supported with this award and the government’s ability to access such products or technologies in the future.
 - If prior federally funded SBIR/STTR data supports the proposed follow-on development effort, describe the connection between the prior SBIR/STTR and the current project and explain all active SBIR/STTR data rights.
 - If applicable, state and identify the proprietary information that will be provided to the government and indicate whether the applicant/offeror will require a waiver of the federal purpose license.
 - If applicable, a risk analysis for cost, schedule, manufacturability, and sustainability.
- **Attachment 8: Animal Research Plan (*only applicable and required for applications/proposals proposing animal studies; three-page limit*): Upload as “AnimalResPlan.pdf”.** If the proposed study involves animals, a summary describing the animal research that will be conducted must be included in the application/proposal. ***Proposed studies should not rely on samples, reagents, or tools that are contingent upon completion of other ongoing efforts outside the scope of this proposal.*** Consult the ARRIVE guidelines 2.0 (Animal Research: Reporting *In Vivo* Experiments) to ensure relevant aspects of rigorous animal research are adequately planned for and, ultimately, reported. The ARRIVE guidelines 2.0 can be found at <https://arriveguidelines.org/arrive-guidelines>. The Animal Research Plan may not be an exact replica of the protocol(s)

submitted to the Institutional Animal Care and Use Committee (IACUC). The Animal Research Plan should address the following points to achieve reproducible and rigorous results for each proposed animal study:

- Briefly describe the research objective(s) of the animal study. Explain how and why the animal species, strain, and model(s) being used can address the scientific objectives and, where appropriate, the study’s relevance to human biology.
 - Summarize the procedures to be conducted. Describe how the study will be controlled.
 - Describe the randomization and blinding procedures for the study and other measures to be taken to minimize the effects of subjective bias during animal treatment and assessment of results. If randomization and/or blinding will not be utilized, provide justification.
 - Provide a sample size estimate for each study arm and the method by which it was derived, including power analysis calculations.
 - Describe how data will be handled, including rules for stopping data collection, criteria for inclusion and exclusion of data, how outliers will be defined and handled, statistical methods for data analysis, and identification of the primary endpoints(s).
 - Describe how data will be reported and how it will be assured that the documentation will support a regulatory filing with the FDA, if applicable.
- **Attachment 9: Intervention (*only applicable and required for clinical trial applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’; no page limit*): Upload as “Intervention.pdf”.** The Intervention attachment should include the components listed below.
- **Description of the Intervention:** Identify the intervention to be tested and describe the particular outcomes. Describe how the intervention addresses the clinical needs and how it compares with currently available interventions and/or standards of care. As applicable, the description of the intervention should include the following components: complete name and composition, storage and handling information, source, dose, schedule, administration route, washout period, duration of the intervention, and concomitant medications allowed. Description of devices should include general concept of design, detailed operational instructions, any potential risks to users, and intended benefits. Other types of interventions should be fully described. Indicate who holds the intellectual property rights to the intervention, if applicable, and how the PI has obtained access to those rights for conduct of the clinical trial.
- Summarize key preclinical pharmacological findings, dosage studies, and other clinical studies (if applicable) that examine the safety and stability (as appropriate) of the intervention.

- **Study Procedures:** Describe the interaction with the human subject, including the study intervention that they will experience. Provide sufficient detail in chronological order for a person uninvolved in the study to understand what the human subject will experience. Provide a schedule (e.g., flowchart or diagram) of study evaluations and follow-up procedures. Address any special precautions to be taken by the human subjects before, during, and after the study (e.g., medication washout periods, dietary restrictions, hydration, fasting, pregnancy prevention). Describe measures to ensure consistency of dosing (e.g., active ingredients for nutritional supplements, rehabilitation interventions). Clearly delineate research procedures from routine clinical procedures. Describe any special care (e.g., wound dressing assistance, transportation due to side effects of study intervention impairing ability to drive) or equipment (e.g., thermometers, telemedicine equipment) needed for human subjects enrolled in the study. Discuss how compliance with current Good Laboratory Practice (GLP) and Good Manufacturing Practice (GMP) guidelines and other regulatory considerations will be established, monitored, and maintained, as applicable.
- **Laboratory Evaluations:** State the biospecimen that will be collected along with the collection schedule and amount. Describe all evaluations that will be made for study purposes. Explain how the results of laboratory evaluations will be used to meet the objectives of the study (or to monitor safety of human subjects). Describe the specimen storage plan, including location of storage, how long specimens will be stored, any special conditions required, labeling, and specimen disposition. Outline the actions to be taken to allow the use of stored specimens in future research studies, if applicable. Identify the laboratory performing each evaluation, the applicable quality standard, and any special precautions that should be taken in handling the samples. If transport of samples is required, describe provisions for ensuring proper storage during transport.
- **Questionnaires and Other Research Data Collection Instruments:** Include a copy of the most recent version of questionnaires, data collection forms, rating scales, interview guides, or other instruments. For each instrument, describe how the information collected is related to the objectives of the study. Describe how and when the instrument(s) will be administered. Describe how the instrument(s) will be adapted to the subject population, if applicable.
- **Clinical Monitoring Plan:** Describe how the study will be conducted by and monitored for current ICH E6 (International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use) Good Clinical Practice (GCP) compliance, by an independent clinical trial monitor (or clinical research associate). The monitoring plan should describe the types of monitoring visits to be conducted, the intervals (based on level of risk), how corrective actions will be reported to the Sponsor and PI, and how they will be corrected and prevented by the clinical trial site/PI.
- **Attachment 10: Human Subjects/Sample Acquisition and Safety Procedures**
(applicable and required for all applications/proposals submitted under the ‘Clinical

Research or Clinical Trial Option’; no page limit): Upload as “HumSubProc.pdf”. If the proposed study involves human subjects, human biological samples (prospective or retrospective), or human data sets the applicant/offeror is required to submit a summary describing the human research that will be conducted. *Proposed studies should not rely on samples, reagents, or tools that are contingent upon completion of other ongoing efforts outside the scope of this proposal.*

- **Study/Sample Population:** Describe the target population (to whom the study findings will be generalized) and the nature, approximate number, and pertinent demographic characteristics of the accessible population at the study site(s) (population from whom the sample will be recruited/drawn). Provide a table of anticipated enrollment counts at each study site. ***Demonstrate that the research team has access to the proposed study/sample population at each site and describe the efforts that will be made to achieve accrual goals. For clinical studies/trials proposing to include military personnel, refer to the General Submission Instructions, Appendix 4, for more information.***
- **Inclusion/Exclusion Criteria:** List the inclusion and exclusion criteria for the proposed clinical study/trial. Inclusion/exclusion criteria should take into consideration the specific risk profile of the studies to be conducted and the standard of care for that patient population. Provide detailed justification related to the scientific goals of the proposed study for limiting inclusion of any group by age, race, ethnicity, or sex/gender, or for any other exclusions.
- **Women and Minorities in the Study:** Consistent with the Belmont Report, “Ethical Principles and Guidelines for the Protection of Human Subjects,” and congressional legislation, special attention is given to inclusion of women and/or minorities in studies funded or supported by the USAMRDC. This policy is intended to promote equity both in assuming the burdens and in receiving the benefits of human subjects research. Describe the strategy for the inclusion of women and minorities appropriate to the objectives of the study, including a description of the composition of the proposed study population in terms of sex/gender, racial, and ethnic group, and an accompanying rationale for the selection of subjects. ***Studies utilizing human biospecimens or datasets that cannot be linked to a specific individual, gender, ethnicity, or race (typically classified as exempt from Institutional Review Board [IRB] review) are exempt from this requirement.***
- **Inclusion Enrollment Plan:** Provide an anticipated enrollment table(s) for the inclusion of women and minorities using the Public Health Service (PHS) Inclusion Enrollment Report, a three-page fillable PDF form that can be downloaded from eBRAP at <https://ebrap.org/eBRAP/public/Program.htm>. The enrollment table(s) should be appropriate to the objectives of the study with the proposed enrollment distributed on the basis of sex/gender, race, and ethnicity. ***Studies utilizing human biospecimens or datasets that cannot be linked to a specific individual, gender, ethnicity, or race (typically classified as exempt from IRB review) are exempt from this requirement.***

- **Description of the Recruitment Process:** Explain methods for identification of potential human subjects (e.g., medical record review, obtaining sampling lists, health care provider identification).
 - Describe the recruitment process in detail. Address the availability of human subjects for each enrollment site. Address who will identify potential human subjects, who will recruit them, and what methods will be used to recruit them.
 - If human subjects will be compensated for participation in the study, include a detailed description of and justification for the compensation plan.
 - Describe the recruitment and advertisement materials. The recruitment materials should not be coercive or offer undue inducements and should accurately reflect the study.
 - Discuss past efforts in recruiting human subjects from the target population for previous related clinical studies/trials performed by the research team (if applicable).
 - Address any potential barriers to human sample or subject accrual and plans for addressing unanticipated delays, including a mitigation plan for slow or low enrollment or poor retention for example. Identify ongoing clinical studies/trials that may compete for the same patient population and how they may impact enrollment progress.

- **Description of the Informed Consent Process:** Specifically describe the plan for obtaining informed consent from human subjects.
 - *For the proposed study, provide a draft, in English, of the Informed Consent Form.*
 - Identify who is responsible for explaining the study, answering questions, and obtaining informed consent. Include a plan for ensuring that human subjects' questions will be addressed during the consent process and throughout the study/trial.
 - Include information regarding the timing and location of the consent process.
 - Address issues relevant to the mental capacity of the potential human subject (e.g., altered capacity due to administration of any mind-altering substances such as tranquilizers, conscious sedation or anesthesia, brain injury, stress/life situations, or human subject age), if applicable.
 - Address how privacy and time for decision-making will be provided and whether the potential human subject will be allowed to discuss the study with anyone before making a decision.

- Consider the need for obtaining ongoing consent or for re-assessing capacity over the course of a long-term study and describe any relevant procedures to assure continued consent.
- Describe the plan for the consent of the individual's Legally Authorized Representative (LAR) to be obtained prior to the human subject's participation in the study. State law defines who may act as the LAR. The local IRB of record should be consulted for guidance regarding who can serve as LAR for research at the study site. *Note:* In compliance with 10 USC 980 (<https://www.gpo.gov/fdsys/pkg/USCODE-2011-title10/pdf/USCODE-2011-title10-subtitleA-partII-chap49-sec980.pdf>), the application/proposal must describe a clear intent to benefit for human subjects who cannot give their own consent to participate in the proposed clinical study/trial.
- *Assent:* If minors or other populations that cannot provide informed consent are included in the proposed clinical study/trial, a plan to obtain assent (agreement) from those with capacity to provide it, or a justification for a waiver of assent, should be provided. PIs should consult with their local IRB to identify the conditions necessary for obtaining assent.
- **Screening Procedures:** List and describe any evaluations (e.g., laboratory procedures, history, or physical examination) that are required to determine eligibility/suitability for study participation and the diagnostic criteria for entry.
- **Risks/Benefits Assessment:**
 - **Foreseeable risks:** Clearly identify all study risks, including potential safety concerns and adverse events. If applicable, any potential risk to the study personnel should be identified.
 - **Risk management and emergency response:**
 - ❖ Appropriate to the study's level of risk, describe how safety monitoring and reporting to the IRB and Regulatory Agency (if applicable) will be managed and conducted.
 - ❖ Describe all safety measures to minimize and/or eliminate risks to human subjects and study personnel or to manage unpreventable risks. Include safeguards and planned responses such as dose reduction or stopping criteria based on toxicity grading scales or other predetermined alert values.
 - ❖ Discuss the overall plan for provision of emergency care or treatment for an adverse event for study-related injuries, including who will be responsible for the cost of such care.
 - **Potential benefits:** Describe known and potential benefits of the study to the human subjects who will participate in the study. Articulate the importance of the knowledge to be gained as a result of the proposed research. Discuss why the

potential risks to human subjects are reasonable in relation to the anticipated benefits to the human subjects and others that may be expected to result.

- **Attachment 11: Regulatory Strategy** (*applicable and required for all product development efforts and all applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’; no page limit*). If submitting multiple documents, start each document on a new page. Combine and upload as a single file named “**Regulatory.pdf**”. Answer the following questions and provide supporting documentation as applicable.

- State the product/intervention name.

For products/interventions that do not require regulation by a Regulatory Agency:

- Provide evidence that the clinical study/trial does not require regulation by a Regulatory Agency. No further information for this attachment is required.

For products/interventions that require regulation by a Regulatory Agency:

- State whether the product is FDA-approved, -licensed, or -cleared, and marketed in the United States.
- If the product is marketed in the United States, state the product label indication. State whether the proposed research involves a change to the approved label indication for the route of administration, dosage level, and/or subject population. Indicate whether the proposed research involves a change that increases the risks associated with using the product. State whether the product is being promoted for an off-label use (where promotion involves the sale of a marketed product).
- If the product is not currently FDA-approved, -licensed, or -cleared, state the planned indication/use. Indicate whether the product would be classified as a drug, device, biologic, or combination product. Indicate whether the FDA has confirmed the proposed classification. Identify the regulatory sponsor. Include a signed sponsor commitment letter acknowledging the regulatory sponsor’s understanding of all sponsor responsibilities and commitment to oversee execution of the study.
- If the proposed research or trial requires an Investigational New Drug (IND) application or an Investigational Device Exemption (IDE) application, the application must be submitted to the FDA by/before **September 30, 2025**. The IND or IDE should be specific for the investigational product (i.e., not a derivative or alternate version of the product) and indication to be tested in the proposed clinical study/trial. Provide the date of submission, the application number, and a copy of the FDA letter acknowledging the submission. If there are any existing cross-references in place, provide the application number(s) and associated sponsor(s). Provide an explanation of the status of the application (e.g., past the critical 30-day period, pending response to questions raised by the FDA, on clinical hold, on partial clinical hold). If the IND or IDE application has been placed on clinical hold or partial hold, explain the conditions that must be met for release of the hold. Provide a summary of any

- previous meetings with the FDA on development of this product. A copy of the Regulatory Agency meeting minutes should be included if available. Provide copies of communications from the FDA relevant to the most recent status of the IND or IDE application. The government reserves the right to withdraw funding if an IND or IDE is necessary but has not been submitted to the FDA by/before **September 30, 2025**.
- If available, provide a copy of the communication from the FDA indicating the IND or IDE application is active/safe to proceed. The government reserves the right to withdraw funding if this documentation has not been obtained by **March 31, 2026**.
 - If an active IND or IDE for the investigational product is in effect, but an amendment is needed to include the proposed study/trial, describe the type and nature of the amendment(s) and the timeline for submission. Indicate whether the amendment increases the risk of the intervention.
 - If the clinical study/trial will be conducted at international sites, provide equivalent information and supporting documentation relevant to the product indication/label and regulatory approval and/or filings in the host country(ies).
 - Provide the current status for manufacturing development (e.g., manufacturer’s name, GMP-compliant lots available, status of stability testing), non-clinical development (e.g., test facility name, status of pivotal GLP toxicology studies to support phase 1 testing), and clinical development (e.g., clinical site name, safety profile, status of any completed or ongoing clinical trials) to demonstrate readiness for the next level of development and/or commercialization.
 - Describe the overall regulatory strategy and product development plan that will be performed during the project’s period of performance to support the planned product indication/label. Include, as appropriate, a description of the numbers and types of studies proposed to reach approval, licensure, or clearance, the types of Regulatory Agency meetings that will be held/planned, and the submission filing strategy. Include considerations for compliance with current GMP, GLP, and GCP guidelines.
- **Attachment 12: Data Management (*applicable and required for all applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’; no page limit*): Upload as “Data_Manage.pdf”.** The Data Management attachment should include the components listed below.
 - **Data Management:** Describe the data to be gathered and all methods used for collection, including the following:
 - **Data:** The types of data, software, or other materials to be produced.
 - **Acquisition and processing:** How the data will be acquired, including the time and location of data acquisition, if scientifically pertinent. If use of existing data resources is proposed, describe the origin of the dataset. Provide an account of

the standards to be used for data and metadata format and content. Explain how the data will be processed.

- **Identifiers:** Describe the unique identifiers or specific code system to be used to identify human subjects, if applicable.
- **Confidentiality:**
 - ❖ Explain measures taken to protect the privacy of human subjects and/or maintain confidentiality of study data. Strategies to protect the privacy and confidentiality of study records, particularly those containing identifying information, should be addressed.
 - ❖ Address who will have access to study records, data, and specimens, including an acknowledgment that representatives of the DOD are eligible to review study records.
 - ❖ Address the requirements for reporting sensitive information to state or local authorities.
- **Data capture, verification, and disposition:** Describe how data will be captured and verified, including the quality assurance and quality control measures taken during collection, analysis, and processing. Describe where data (both electronic and hard copy) will be stored; who will keep the data; how the data will be stored, if applicable; the file formats and the naming conventions that will be used; the process for locking the database at study completion; and the length of time that data will be stored, along with a justification for the time frame of preservation, which may include considerations related to the balance between the relative value of data preservation and other factors such as the associated cost and administrative burden of data storage. Describe the proposed database, how it will be developed and validated, and its capability to safeguard and maintain the integrity of the data. Describe the database lock process. For studies requiring Regulatory Agency oversight, compliance with 21 CFR 11 and appropriate data standards (such as those established by the Clinical Data Interchange Standards Consortium) is required.
- **Data reporting:** Describe how data will be reported and how it will be assured that the documentation will support a regulatory filing with the FDA, if applicable.
- **Sharing study results:** In cases where the human subject could possibly benefit medically or otherwise from the information, explain whether the results of screening and/or study participation will be shared with human subjects or their primary care provider, including results from any screening or diagnostic tests performed as part of the study. In cases of national security or controlled unclassified information concerns, include a statement that the data cannot be made available to the public (e.g., “This data cannot be cleared for public release in accordance with the requirements in DoD Directive 5230.09.”).

- **Attachment 13: Study Personnel and Organization** (*applicable and required for all applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’; no page limit*): **Start each document on a new page. Combine into one document and upload as “Personnel.pdf”.** The Study Personnel and Organization attachment should include the components listed below.
 - **Organizational Chart:** Provide an organizational chart that identifies key members of the study team and provides an outline of the governing structure for multi-institutional studies. Identify collaborating organizations, centers, and/or departments and name each person’s position on the project. Include any separate laboratory or testing centers. Identify the data and clinical coordinating center(s) and note any involvement from Contract Research Organizations, as appropriate. Identify and provide justification for the inclusion of international sites, as appropriate. If applicable, identify the Regulatory Agency sponsor and any external consultants or other experts who will assist with Regulatory Agency sponsor applications. While there is no specified format for this information, a table(s) or diagram is recommended.
 - **Study Personnel Description:** Briefly describe the composition of the study team, including roles of the individuals listed in the organizational chart on the project along with any external consultants or advisors who will provide critical guidance and input to the study team (e.g., statistician, regulatory expert, commercialization consultant, clinical ethicist, patient advocate). Study coordinator(s) should be included. Describe how the levels of effort for each individual are appropriate to successfully support the proposed research. Describe relevant background and qualifications that demonstrate appropriate expertise to accomplish the proposed work, including previous interactions with the relevant Regulatory Agency, if applicable.
 - **Study Management Plan:** Provide a plan for ensuring the standardization of procedures among staff and across sites (if applicable). If the proposed clinical study/trial involves more than one institution, clearly describe the multi-institutional structure governing the research protocol(s) across all participating institutions. Provide a regulatory submission plan for the master protocol and master consent form by the lead institution. If the research involves more than one institution, a single IRB is required for all institutions located in the United States. If applicable, describe how communication and data transfer between/among the collaborating institutions will occur, as well as how data, specimens, and/or imaging products obtained during the study will be handled and shared.
- **Attachment 14: Representations:** Upload as **“RequiredReps.pdf”**. All extramural applicants/offerors must complete and submit the Required Representations template available on eBRAP (<https://ebrap.org/eBRAP/public/Program.htm>). For more information, see the General Submission Instructions, Appendix 8, Section B.
- **Attachment 15: Suggested Intragovernmental/Intramural Budget Form** (*if applicable*): Upload as **“IGBudget.pdf”**. If an [intramural DOD organization](#) will be a

collaborator in performance of the project, complete a separate budget using the “Suggested Intragovernmental/Intramural Budget Form”, available for download on the eBRAP “Funding Opportunities & Forms” web page (<https://ebrap.org/eBRAP/public/Program.htm>). The budget should cover the entire period of performance for each intramural DOD site and include a budget justification as instructed. The **total** costs per year for each subaward (direct and indirect costs) should be included on the Grants.gov Research & Related Budget Form under subaward costs. Refer to the General Submission Instructions, Section IV.B.(b), for additional information and considerations.

- (c) **Research & Related Personal Data:** Refer to the General Submission Instructions, Section IV.B.(c), for detailed instructions.
- (d) **Research & Related Senior/Key Person Profile (Expanded):** Refer to the General Submission Instructions, Section IV.B.(d), for detailed instructions.
 - **PI Biographical Sketch (six-page limit):** Upload as “Biosketch_LastName.pdf”.
 - **PI Previous/Current/Pending Support (no page limit):** Upload as “Support_LastName.pdf”.
 - **Key Personnel Biographical Sketches (six-page limit each):** Upload as “Biosketch_LastName.pdf”.
 - **Key Personnel Previous/Current/Pending Support (no page limit):** Upload as “Support_LastName.pdf”.
- (e) **Research & Related Budget:** Refer to the General Submission Instructions, Section IV.B.(e), for detailed instructions.
 - **Budget Justification (no page limit):** Refer to General Submission Instructions, Section IV.B.(e), Budget Justification Instructions.
- (f) **Project/Performance Site Location(s) Form:** Refer to the General Submission Instructions, Section IV.B.(f), for detailed instructions.
- (g) **Research & Related Subaward Budget Attachment(s) Form (if applicable):** Refer to the General Submission Instructions, Section IV.B.(g), for detailed instructions.
 - **Extramural Subaward:** Complete the Research & Related Subaward Budget Form and upload through Grants.gov.
 - **Intramural DOD Subaward:** Complete a separate “[Suggested Intragovernmental/Intramural Budget Form](#)” for each intramural DOD subaward and upload as a single document titled **IGBudget.pdf** to Grants.gov as Attachment 15.

II.D.2.c. Verification of Full Application/Proposal Submission in eBRAP

Once the full application/proposal is submitted it is transmitted to and processed in eBRAP. At this stage, the PI and organizational representatives will receive an email from eBRAP instructing them to log into eBRAP to review, modify, and verify the full application/proposal submission. Verification is strongly recommended but not required. eBRAP will validate full application/proposal files against the specific BAA requirements, and discrepancies will be noted in the “Full Application Files” tab in eBRAP. However, eBRAP does not confirm the accuracy of file content. It is the applicant’s/offeror’s responsibility to review all application/proposal components and ensure proper ordering as specified in this BAA. ***The Project Narrative and Research & Related Budget Form cannot be changed after the full application/proposal submission deadline. If either the Project Narrative or the budget fails eBRAP validation or needs to be modified, an updated full application/proposal package must be submitted prior to the full application/proposals submission deadline.*** Other application/proposal components, including subaward budget(s) and subaward budget justification(s), may be changed until the end of the [submission verification period](#). The full application/proposal cannot be modified once the submission verification period ends.

II.D.3. Unique Entity Identifier (UEI) and System for Award Management (SAM)

The applicant/offeror organization must be registered as an entity in SAM (<https://www.sam.gov/content/home>) and receive confirmation of an “Active” status before submitting an application/proposal through Grants.gov. Organizations must include the UEI generated by SAM in submission to this funding opportunity.

II.D.4. Submission Dates and Times

The pre-application/proposal and full application/proposal submission process should be started early to avoid missing deadlines. There are no grace periods. Failure to meet either of these deadlines will result in submission rejection.

All submission dates and times are indicated in [Section I, Overview of the Funding Opportunity](#).

II.D.5. Intergovernmental Review

Not applicable.

II.D.6. Funding Restrictions

The maximum period of performance is 3 years.

The application’s/proposal’s total costs budgeted for the entire period of performance should not exceed **\$2,000,000 for the MMRDA or \$3,400,000 for the MMRDA–CRTO**. If indirect cost rates have been negotiated, indirect costs are to be budgeted in accordance with the organization’s negotiated rate. Collaborating organizations should budget associated indirect costs in accordance with each organization’s negotiated rate.

All direct and indirect costs of any subaward or contract must be included in the direct costs of the primary award.

The applicant/offeror may request the entire maximum funding amount for a project that may have a period of performance less than the maximum **3** years.

For this award mechanism, direct costs may be requested for:

- Travel between/among collaborating organizations (as applicable).
- Travel costs for one investigator to disseminate project results at two separate DOD-sponsored meetings (e.g., the MHS Research Symposium).
- Travel costs for one investigator to travel to one scientific/technical meeting per year, after the first year of the period of performance, to present project information or disseminate project results from the FY24 JWMP MMRDA.

For extramural awards with an intragovernmental component, direct transfer of funds from an extramural award recipient to a DOD or other federal agency is not allowed except under very limited circumstances. Funding to intramural DOD and other federal agencies will be managed through a direct funds transfer.

Refer to the General Submission Instructions, Section IV.B.(e), for budget regulations and instructions for the Research & Related Budget. *For federal agencies or organizations collaborating with federal agencies, budget restrictions apply as are noted in the General Submission Instructions, Section IV.B.(g).*

II.D.7. Other Submission Requirements

Refer to the General Submission Instructions, Appendix 2, for detailed formatting guidelines.

II.E. Application/Proposal Review Information

II.E.1. Criteria

II.E.1.a. Peer Review

To determine technical merit, all applications/proposals will be individually evaluated according to the following **scored criteria**, of which **Research Strategy and Feasibility** and **Impact** are of utmost and equal importance, with the remaining criteria listed in decreasing order of importance:

- **Research Strategy and Feasibility**
 - How well the application/proposal presents the scientific rationale behind the proposed research or materiel/knowledge product development effort, including relevant literature citations, preliminary data, and/or preclinical data, to support feasibility.

- How well the application/proposal states the hypotheses to be tested and/or the objective(s) to be reached.
 - How well the application/proposal describes the experimental design, methods, and analyses, including appropriate controls, choice of animal model (if applicable), and the endpoints/outcome measures to be used, in sufficient detail for evaluation of feasibility and effectiveness in supporting completion of the project aims.
 - How well the study (or studies) is designed to achieve reproducible and rigorous results, including controls, sample size estimation, blinding, randomization, and data handling.
 - Whether the SOW indicates a feasible plan and timeline to conduct the research and how well it provides clearly defined milestones to be accomplished.
 - How well the application/proposal describes potential problem areas and discusses alternative methods/approaches that may be employed to overcome them, including interdependency of aims (i.e., dependency on successful outcomes of other ongoing related research efforts).
- **Impact**
 - The degree to which the proposed effort is relevant to the role of the JWMP in addressing high-priority DOD medical requirements and capability gaps and accelerating the development of products that will impact the Warfighter within the context of the [FY24 JWMP Focus Area\(s\)](#) being addressed.
 - To what degree the knowledge, technologies, or products gained from the research could benefit the civilian population and also address the health care needs of Service Members, their Families, and/or Veterans.
 - To what degree the research will result in faster and/or better delivery of high-priority health care solutions for the Warfighter.
 - To what degree the anticipated short-term outcomes(s)/products(s) (knowledge and/or materiel) of the proposed effort will impact the relevant populations, and augment and/or accelerate product development as applicable.
 - How significantly the long-term gains from this research may impact the health and readiness of Warfighters.
 - **Transition Plan and Regulatory Strategy**
 - Whether the transition plan and regulatory strategy are appropriate and well described.
 - Whether the proposed research meets a current TRL or KRL of 5 or higher, and whether the proposed target TRL or KRL is realistic and appropriate.

- Whether the funding strategy to transition to the next level of development and/or commercialization (e.g., specific partnerships, specific funding resources, commercial and/or military market) is reasonable and achievable.
- For knowledge products, whether the proposed collaborations and other resources that will be used to provide continuity of development, including proposed development or modification of CPGs and recommendations, provider training materials, patient brochures, clinical support tools, scientific journal publications, models, simulations, and applications are established and/or achievable.
- Whether the schedule and milestones for transitioning the anticipated research outcomes to the next phase of development (i.e., next-phase clinical trials, commercialization/transition to industry, delivery to market, incorporation into clinical practice, and/or approval by the FDA) are achievable.
- Whether the steps for adapting and transitioning the civilian product/knowledge/intervention for military fielding/adoption/use are reasonable and achievable.
- How well the application/proposal identifies intellectual property ownership rights and/or demonstrates the appropriate access to the intellectual property necessary for the development and/or commercialization of products or technologies supported by this funding opportunity announcement and identifies the government's ability to access such products or technologies in the future.
- How well the application/proposal describes any active SBIR/STTR data rights (if applicable).
- How well the application/proposal describes an appropriate Intellectual and Material Property Plan for resolving intellectual and material property issues among participating organizations (if applicable).
- If applicable, whether the risk analysis for cost, schedule, manufacturability, and sustainability is realistic and reasonable.
- The extent to which the regulatory strategy to support the product label indication or product label change, if applicable, is appropriate and well described.
- Whether the application/proposal explains why the product/intervention is exempt from FDA oversight, or, for products that require FDA regulation, whether the plans/timeline for IND or IDE application submission to the FDA are appropriate, or the IND or IDE submission has already taken place.
- To what degree the application/proposal describes how the data will be reported and how it will be assured that the documentation will support a regulatory filing with the FDA, if applicable.

- If clinical studies will be conducted outside of the United States, whether there is documentation of pre-IND communication between the applicant/offeror and the FDA regarding phase 1 studies.
- Whether the identified status for manufacturing development, non-clinical development, and clinical development demonstrates readiness for the next level of development and/or commercialization.
- Whether the numbers and types of studies proposed to reach approval, licensure, or clearance, the types of FDA meetings that will be held/planned, and the submission filing strategy are appropriate.
- Whether plans to comply with GMP, GLP, and GCP guidelines are appropriate.
- **Clinical Strategy (for applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’)**
 - As applicable, how well the application/proposal describes the type of clinical study/trial to be performed, the phase of trial and/or class of device, and the study model.
 - How well the application/proposal identifies and describes the hypothesis/intervention to be studied and the projected outcomes.
 - To what degree the observational study or intervention addresses high-priority clinical needs and represents an advancement over currently available standards of care and/or interventions.
 - How well the application/proposal provides a brief description of the study/sample population, criteria for inclusion/exclusion, and the methods that will be used for recruitment/accrual of human subjects, samples, and/or data sets.
 - Whether the application/proposal demonstrates that the research team has access to the proposed study/sample population at each site and describes the efforts that will be made to achieve accrual goals.
 - How well the application/proposal addresses any potential barriers to human sample or subject accrual and plans for addressing unanticipated delays, including a mitigation plan for slow or low enrollment and/or poor retention, for example.
 - Whether the strategy for the inclusion of women and minorities and distribution of proposed enrollment are appropriate for the proposed research and whether justification is provided if any groups will be excluded.
 - As applicable, how well the application/proposal describes the plan for obtaining informed consent from human subjects.
 - How well the application/proposal describes measures that will be taken to reduce bias, such as blinding of subjects, clinicians, data analysts, and/or others during the study.

- How well research procedures are delineated from routine clinical procedures.
- How well the application/proposal discusses risk/benefit considerations, including a clear and detailed description of potential ethical issues raised by the proposed study, and a detailed plan for how the ethical issues will be addressed.
- How well the application/proposal explains measures taken to protect the privacy of human subjects and/or maintains confidentiality of study data.
- To what degree the application/proposal includes preclinical and/or clinical evidence to support the safety and stability (as appropriate) of the intervention.
- How well the application/proposal documents access to the intellectual property rights to the intervention for the duration of the proposed clinical study/trial (if applicable).
- **Data and Statistical Analysis Plan**
 - To what degree the data analysis plan is consistent with study objectives.
 - To what degree the statistical plan, including power analysis for sample size projections, is appropriate to meet the objectives of the study.
- **Personnel**
 - To what degree the background and expertise of the PI and other key personnel demonstrate their ability to accomplish the proposed work, including whether there is evidence of sufficient clinical and/or statistical expertise (as applicable).
 - To what degree the levels of effort by the PI and other key personnel are appropriate for successful conduct of the proposed work.

In addition, the following **unscored criteria** will also contribute to the overall evaluation of the application/proposal:

- **Environment**
 - How the scientific environment is appropriate for the proposed research and/or materiel/knowledge product development effort.
 - How the research and/or product development requirements are supported by the availability of, and accessibility to, facilities and resources (including collaborative arrangements).
 - How the quality and extent of institutional support are appropriate for the proposed effort.
- **Budget**
 - Whether the budget is appropriate for the proposed research.

- **Application/Proposal Presentation**

- To what extent the writing, clarity, and presentation of the submission components influence the review.

II.E.1.b. Programmatic Review

To make funding recommendations and select the application(s)/proposal(s) that, individually or collectively, will best achieve the program objectives, the following criteria are used by programmatic reviewers:

- Ratings and evaluations of the peer reviewers
- Relevance to the priorities of the DHP and FY24 JWMP, as evidenced by the following:
 - Military relevance, including alignment with and balance within and across the identified DOD and Services medical research priorities and portfolios
 - Relative potential of the research to augment and/or accelerate clinical, technical, or materiel/knowledge product development efforts that directly benefit military medicine
 - Relative transition potential of the anticipated product/outcome
 - Relative impact of the research on Service Members, their Families, and Veterans

II.E.2. Application/Proposal Review and Selection Process

All applications/proposals are evaluated by scientists, clinicians, and consumers in a two-tier review process. The first tier is **peer review**, the evaluation of applications/proposals against established criteria to determine technical merit, where each application/proposal is assessed for its own merit, independent of other applications/proposals. The second tier is **programmatic review**, a comparison-based process in which applications/proposals with high scientific and technical merit are further evaluated for programmatic relevance. Final recommendations for funding are made to the Commanding General, USAMRDC. ***The highest-scoring applications/proposals from the first tier of review are not automatically recommended for funding. Funding recommendations depend on various factors as described in [Section II.E.1.b, Programmatic Review](#).*** Additional information about the two-tier process used by the CDMRP can be found at <https://cdmrp.health.mil/about/2tierRevProcess>.

All CDMRP review processes are conducted confidentially to maintain the integrity of the merit-based selection process. Panel members sign a statement declaring that application/proposal and evaluation information will not be disclosed outside the review panel. Violations of confidentiality can result in the dissolution of a panel(s) and other corrective actions. In addition, personnel at the applicant/offeror or collaborating organizations are prohibited from contacting persons involved in the review and approval process to gain protected evaluation information or to influence the evaluation process. Violations of these prohibitions will result in the administrative withdrawal of the organization's application/proposal. Violations by panel members or applicants/offerors that compromise the confidentiality of the review and approval

process may also result in suspension or debarment from federal awards. Furthermore, the unauthorized disclosure of confidential information of one party to a third party is a crime in accordance with 18 USC 1905.

II.E.3. Integrity and Performance Information

Prior to making an award where the federal share is expected to exceed the simplified acquisition threshold, as defined in 2 CFR 200.1, over the period of performance, the federal awarding agency is required to review and consider any information about the applicant/offeror that is available in SAM.

An applicant/offeror organization may review SAM and submit comments on any information currently available about the organization that a federal awarding agency previously entered. The federal awarding agency will consider any comments by the applicant/offeror, in addition to other information in the designated integrity and performance system, in making a judgment about the applicant's/offeror's integrity, business ethics, and record of performance under federal awards when determining a recipient's qualification prior to award, according to the qualification standards of the Department of Defense Grant and Agreement Regulations (DoDGARs), Section 22.415.

II.F. Federal Award Administration Information

II.F.1. Federal Award Notices

Each organizational representative and PI will receive email notification when the funding recommendations are posted to eBRAP. At this time, each PI will receive a peer review summary statement on the strengths and weaknesses of the application/proposal and an information paper describing the funding recommendation and review process for the JWMP award mechanisms. The information papers and a list of organizations and PIs recommended for funding are also posted on the program's page within the CDMRP website.

If an application/proposal is recommended for funding, after the email notification is posted to eBRAP, a government representative will contact the person authorized to negotiate on behalf of the recipient organization.

Only an appointed USAMRAA Warranted Official may obligate the government to the expenditure of funds to an extramural organization. No commitment on the part of the government should be inferred from discussions with any other individual. ***The award document signed by the USAMRAA Warranted Official is the official authorizing document.***

Intra-DOD obligations of funding will be made according to the terms of a negotiated Inter-Agency Agreement and managed by a CDMRP Science Officer.

Funding obligated to support ***intragovernmental and intramural DOD*** subawards/subcontracts will be sent through the Military Interdepartmental Purchase Request (MIPR), Funding Authorization Document (FAD), or Direct Charge Work Breakdown Structure processes. Transfer of funds is contingent upon appropriate safety and administrative approvals.

Intragovernmental and intramural DOD investigators and collaborators must coordinate receipt and commitment of funds through their respective Resource Manager/Task Area Manager/Comptroller or equivalent Business Official.

For assistance agreement awards, an organization may, at its own risk and without the government's prior approval, incur obligations and expenditures to cover costs up to 90 days before the beginning date of the initial budget period of a new award.

For contract awards and OTs, an organization may request and negotiate pre-contract costs prior to contract award.

Refer to the General Submission Instructions, Section IV.B.(e), Pre-Award Costs section, for additional information about pre-award costs.

If there are technical reporting requirement delinquencies for any existing USAMRAA-sponsored awards at the applicant/offeror organization, no new awards will be issued to the applicant/offeror organization until all delinquent reports have been submitted.

II.F.2. PI Changes and Award Transfers

Unless otherwise restricted, changes in PI will be allowed on a case-by-case basis, provided the intent of the award mechanism is met.

The organizational transfer of an assistance agreement award supporting a clinical trial is strongly discouraged and, in most cases, will not be allowed. Approval of a transfer request will be on a case-by-case basis.

An organizational transfer of an assistance agreement award will not be allowed in the last year of the (original) period of performance or any extension thereof.

Refer to the General Submission Instructions, Appendix 7, Section F, for general information on organization or PI changes.

II.F.3. Administrative and National Policy Requirements

Applicable requirements in the DoDGARs found in 32 CFR, Chapter I, Subchapter C, and 2 CFR, Chapter XI, apply to grants and cooperative agreements resulting from this BAA.

Applicable requirements in the FAR, found in 48 CFR, Chapter 1; and DFARS, found in 48 CFR, Chapter 2, apply to contracts resulting from this BAA. Refer to additional FAR and DFARS clauses as outlined in [Appendix 3](#).

Refer to the General Submission Instructions, Appendix 7, for general information regarding administrative requirements.

Refer to the General Submission Instructions, Appendix 8, for general information regarding national policy requirements.

Refer to full text of the latest [DoD R&D Terms and Conditions](#) and the [USAMRAA Research Terms and Conditions: Addendum to the DoD R&D Terms and Conditions](#) for further information.

Funded trials are required to post a copy of the informed consent form used to enroll subjects on a publicly available federal website in accordance with federal requirements described in 32 CFR 219. Funded studies are required to register the study in the National Institutes of Health (NIH) clinical trials registry, www.clinicaltrials.gov, prior to initiation of the study. Refer to the General Submission Instructions, Appendix 6, Section F, for further details.

Applications/proposals recommended for funding that involve animals, human data, human specimens, human subjects, or human cadavers must be reviewed for compliance with federal and DOD animal and/or human subjects protection requirements and approved by the USAMRDC Office of Human and Animal Research Oversight (OHARO), prior to implementation. This administrative review requirement is in addition to the local Institutional Animal Care and Use Committee (IACUC), Institutional Review Board (IRB), or Ethics Committee (EC) review. Refer to the General Submission Instructions, Appendix 6, for additional information.

II.F.4. Reporting

Refer to the General Submission Instructions, Appendix 9, for general information on reporting requirements.

Annual technical progress reports and quad charts as well as a final technical progress report and quad chart will be required. Annual and final technical reports must be prepared in accordance with the Research and Performance Progress Report (RPPR).

If the award made under this funding opportunity announcement is a contract or OT, additional reporting requirements may apply.

The Award Terms and Conditions will specify whether additional and/or more frequent reporting is required.

Award Expiration Transition Plan: An Award Expiration Transition Plan must be submitted with the final progress report. Use the one-page template “Award Expiration Transition Plan,” available on the eBRAP “Funding Opportunities & Forms” web page (<https://ebrap.org/eBRAP/public/Program.htm>) under the “Progress Report Formats” section. The Award Expiration Transition Plan must outline whether and how the research supported by this award will progress and must include source(s) of funding, either known or pending.

PHS Inclusion Enrollment Reporting Requirement: Enrollment reporting on the basis of sex/gender, race, and/or ethnicity will be required with each annual and final progress report. The PHS Inclusion Enrollment Report is available on the “Funding Opportunities & Forms” web page (<https://ebrap.org/eBRAP/public/Program.htm>) in eBRAP.

Awards resulting from this BAA may entail additional reporting requirements related to recipient integrity and performance matters. Recipient organizations that have federal contract, grant, and

cooperative agreement awards with a cumulative total value greater than \$10M are required to provide information to SAM about certain civil, criminal, and administrative proceedings that reached final disposition within the most recent 5-year period and that were connected with performance of a federal award. These recipients are required to disclose, semiannually, information about criminal, civil, and administrative proceedings as specified in the applicable Representations (see General Submission Instructions, Appendix 8, Section B).

II.G. Federal Awarding Agency Contacts

II.G.1. eBRAP Help Desk

Questions regarding BAA content or submission requirements as well as technical assistance related to pre-application/proposal submission:

Phone: 301-682-5507

Email: help@eBRAP.org

II.G.2. Grants.gov Contact Center

Questions regarding Grants.gov registration and Workspace:

Phone: 800-518-4726; International 1-606-545-5035

Email: support@grants.gov

II.H. Other Information

II.H.1. Administrative Actions

After receipt of pre-applications/proposals or full applications/proposals, the following administrative actions may occur.

II.H.1.a. Rejection

The following will result in administrative rejection of the pre-application/proposal:

- FY24 JWMPR Pre-Application is missing or incomplete.
- FY24 JWMPR Pre-Application exceeds page limit.

The following will result in administrative rejection of the full application/proposal:

- Submission of an application/proposal for which a letter of invitation was not issued.
- Project Narrative exceeds page limit.
- Project Narrative is missing.

- Budget is missing.

For applications/proposals involving animal research:

- [Attachment 8, Animal Research Plan](#) is missing.

For applications/proposals submitted under the ‘Clinical Research or Clinical Trial Option’ and/or involving human subjects/samples/data:

- [Attachment 10, Human Subjects/Sample Acquisition and Safety Procedures](#), is missing.
- [Attachment 11, Regulatory Strategy](#), is missing.
- [Attachment 12, Data Management](#), is missing.

II.H.1.b. Modification

- Pages exceeding the specific limits will be removed prior to review for all documents other than the Project Narrative.
- Documents not requested will be removed.

II.H.1.c. Withdrawal

The following may result in administrative withdrawal of the pre-application/proposal or full application/proposal:

- An FY24 JWMP Programmatic Panel member is named as being involved in the research proposed or is found to have assisted in the pre-application/proposal or full application/proposal processes including, but not limited to, concept design, application/proposal development, budget preparation, and the development of any supporting documentation, including letters of support/recommendation. *A list of the FY24 JWMP Programmatic Panel members can be found at <https://cdmrp.health.mil/jwmp/panels/panels24>.*
- The application/proposal fails to conform to this BAA description.
- Inclusion of URLs, with the exception of links in References Cited and Publication and/or Patent Abstract sections.
- Applications/proposals that include names of personnel from either of the CDMRP peer or programmatic review companies for which conflicts cannot be adequately mitigated. For FY24, the identities of the peer review contractor and the programmatic review contractor may be found at the CDMRP website (<https://cdmrp.health.mil/about/2tierRevProcess>).
- Personnel from applicant/offeror or collaborating organizations are found to have contacted persons involved in the review or approval process to gain protected evaluation information or to influence the evaluation process.

- Applications/proposals from extramural organizations, including non-DOD federal agencies, received through eBRAP.
- Applications/proposals submitted by an intramural DOD organization as the contracting organization.
- Application/proposal includes research data that are classified and/or proposes research that may produce classified outcomes, or outcomes deemed sensitive to national security concerns.
- The PI does not meet the eligibility criteria.
- The application/proposal does not address at least one of the [FY24 JWMP Focus Areas](#).
- The invited application/proposal proposes a different research project than that described in the pre-application/proposal.
- The invited application/proposal proposes research that is not a logical continuation of the previously DOD-funded research or development effort identified in the notification of invitation.

II.H.1.d. Withhold

Applications/proposals that appear to involve research misconduct will be administratively withheld from further consideration pending organizational investigation. The organization will be required to provide the findings of the investigation to the USAMRAA Warranted Official for a determination of the final disposition of the application/proposal.

II.H.2. Full Application Submission Checklist

Full Application/Proposal Components	Uploaded
SF424 Research & Related Application for Federal Assistance	<input type="checkbox"/>
Attachments	
Project Narrative: Attachment 1, upload as “ProjectNarrative.pdf”	<input type="checkbox"/>
Supporting Documentation: Attachment 2, upload as “Support.pdf”	<input type="checkbox"/>
Technical Abstract: Attachment 3, upload as “TechAbs.pdf”	<input type="checkbox"/>
Lay Abstract: Attachment 4, upload as “LayAbs.pdf”	<input type="checkbox"/>
Statement of Work: Attachment 5, upload as “SOW.pdf”	<input type="checkbox"/>
Impact Statement: Attachment 6 upload as “Impact.pdf”	<input type="checkbox"/>
Transition Plan: Upload as Attachment 7 with file name “Transition.pdf”	<input type="checkbox"/>
Animal Research Plan: Upload as Attachment 8 with file name “AnimalResPlan.pdf” if applicable	<input type="checkbox"/>
Intervention: Upload as Attachment 9 with file name “Intervention.pdf” if applicable	<input type="checkbox"/>
Human Subjects/Sample Acquisition and Safety Procedures: Upload as Attachment 10 with file name “HumSubProc.pdf” if applicable	<input type="checkbox"/>
Regulatory Strategy: Upload as Attachment 11 with file name “Regulatory.pdf” if applicable	<input type="checkbox"/>
Data Management: Upload as Attachment 12 with file name “Data_Manage.pdf” if applicable	<input type="checkbox"/>
Study Personnel and Organization: Upload as Attachment 13 with file name “Personnel.pdf” if applicable	<input type="checkbox"/>
Representations: Attachment 14, upload as “RequiredReps.pdf”	<input type="checkbox"/>
Suggested Intragovernmental/Intramural Budget Form (<i>if applicable</i>): Attachment 15, upload as “IGBudget.pdf”	<input type="checkbox"/>
Research & Related Personal Data	<input type="checkbox"/>
Research & Related Senior/Key Person Profile (Expanded)	<input type="checkbox"/>
Attach PI Biographical Sketch (Biosketch_LastName.pdf)	<input type="checkbox"/>
Attach PI Previous/Current/Pending Support (Support_LastName.pdf)	<input type="checkbox"/>
Attach Biographical Sketch (Biosketch_LastName.pdf) for each senior/key person	<input type="checkbox"/>
Attach Previous/Current/Pending (Support_LastName.pdf) for each senior/key person	<input type="checkbox"/>
Research & Related Budget Include budget justification	<input type="checkbox"/>
Project/Performance Site Location(s) Form	<input type="checkbox"/>
Research & Related Subaward Budget Attachment(s) Form (<i>if applicable</i>)	<input type="checkbox"/>

APPENDIX 1: ACRONYM LIST

ACOS/R&D	Associate Chief of Staff for Research and Development
ARRIVE	Animal Research: Reporting In Vivo Experiments
BAA	Broad Agency Announcement
CDMRP	Congressionally Directed Medical Research Programs
CFR	Code of Federal Regulations
CICA	Competition in Contracting Act
COI	Conflict of Interest
CPG	Clinical Practice Guideline
DFARS	Defense Federal Acquisition Regulation Supplement
DHP	Defense Health Program
DOD	Department of Defense
DoDGARs	Department of Defense Grant and Agreement Regulations
eBRAP	Electronic Biomedical Research Application Portal
EC	Ethics Committee
EO	Executive Order
ET	Eastern Time
FAD	Funding Authorization Document
FAR	Federal Acquisition Regulation
FDA	U.S. Food and Drug Administration
FFRDC	Federally Funded Research and Development Center
FITBIR	Federal Interagency Traumatic Brain Injury Research
FY	Fiscal Year
GCP	Good Clinical Practice
GLP	Good Laboratory Practice
GMP	Good Manufacturing Practice
HRPO	Human Research Protection Office
IACUC	Institutional Animal Care and Use Committee
ICH E6	International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use
IDE	Investigational Device Exemption
IND	Investigational New Drug
IRB	Institutional Review Board
JWMP	Joint Warfighter Medical Research Program
KRL	Knowledge Readiness Level
LAR	Legally Authorized Representative
M	Million

MB	Megabyte
MHS	Military Health System
MIPR	Military Interdepartmental Purchase Request
MMRDA	Military Medical Research and Development Award
MMRDA–CRTO	Military Medical Research and Development Award – Clinical Research or Clinical Trial Option
NDC	Non-Traditional Defense Contractor
OT	Other Transaction
PHS	Public Health Service
PI	Principal Investigator
PII	Personally Identifiable Information
SAM	System for Award Management
SOW	Statement of Work
SBIR	Small Business Innovation Research
STEM	Science, Technology, Engineering, and/or Mathematics
STTR	Small Business Technology Transfer
TBI	Traumatic Brain Injury
TRA	Technology Readiness Assessment
TRL	Technology Readiness Level
UEI	Unique Entity Identifier
URL	Uniform Resource Locator
USAMRAA	U.S. Army Medical Research Acquisition Activity
USAMRDC	U.S. Army Medical Research and Development Command
USC	United States Code
VA	U.S. Department of Veterans Affairs

APPENDIX 2: CLINICAL TRIAL AND TECHNOLOGY/ KNOWLEDGE READINESS LEVEL DEFINITIONS

Drug and Biologic Preclinical and Clinical Trial Definitions

Phase	Population	- Number of Subjects Required*	Purpose
Pre-clinical	Highly controlled (GLP) studies in animals	Hundreds to Thousands	Safety, toxicity, effectiveness. Provides evidence to FDA safe enough to try in humans
0	Healthy volunteers Exception: Cancer/AIDS etc.	10 to 15 subjects/trial	Limited exposure, short duration, with no therapeutic or diagnostic intent. Helps identify promising candidates and assess feasibility for further development. Particularly useful when developing products for serious diseases. Often referred to as Exploratory IND studies.
1	Healthy volunteers Exception: Cancer/AIDS etc.	20 to 80 subjects/trial	Safety
2	Subjects with the Illness (narrow population)	24 to 300 subjects/trial	Safety Effectiveness Dose
3	Subjects with the Illness (broad population)	250 to 3000 subjects/trial	Confirming safety and effectiveness in diverse populations
4	Subjects with the Illness; Special population (very broad population)	FDA and Sponsor negotiate	After FDA approval (Post-licensure), for safety and/or other uses

*The number of subjects in a clinical trial varies greatly by the type of product and FDA input/feedback

Biomedical Technology Readiness Levels

D – Pharmaceutical (Drugs); B/V- Pharmaceutical (biologics, Vaccines); Same for All

System Test, Launch & Operations	TRL 9	Post marketing studies/surveillance. Post-marketing studies may be required.
System/Subsystem Development	TRL 8	Phase 3 clinical trials completed. D- Approval of New Drug Application (NDA) for Drugs by Center for Drug Evaluation & Research (CDER). B/V-Approval of the Biologics License Application (BLA) by Center for Biologics Evaluation & Research (CBER)
Technology Demonstration	TRL 7	Phase 2 clinical trials completed. Phase 3 clinical study plan approved.
Technology Development	TRL 6	Phase 1 clinical trials completed, data support proceeding to Phase 2 clinical trials. IND application prepared and submitted.
Technology Development	TRL 5	Preclinical studies, including GLP animal safety & toxicity, sufficient to support IND applications.
Technology Development	TRL 4	PoC and safety of candidate drug formulations or biologic/vaccine constructs are demonstrated in defined laboratory/animal model(s).
Research to Prove Feasibility	TRL 3	Hypothesis testing and initial proof-of-concept (PoC) demonstrated in limited number of <i>in vitro</i> and <i>in vivo</i> models.
Basic Technology Research	TRL 2	Research ideas and protocols developed. Hypothesis(es) generated.
Basic Technology Research	TRL 1	Maintain scientific awareness; tech watch. Scientific literature reviews and market surveys initiated and assessed.

Biomedical Technology Readiness Levels

MD – Medical Devices

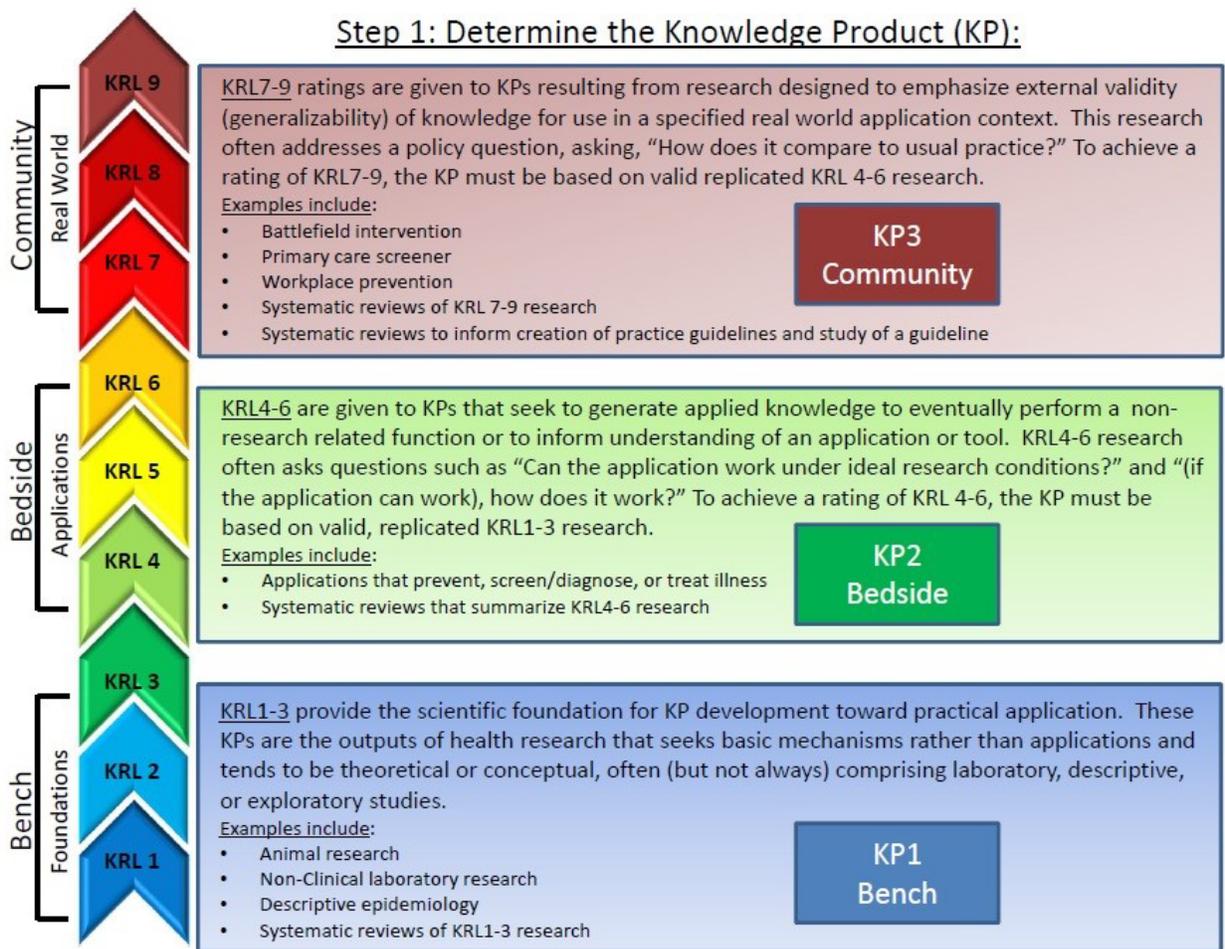
System Test, Launch & Operations	TRL 9	Post marketing studies/surveillance. Post-marketing studies may be required.
System/Subsystem Development	TRL 8	CDRH approval of Premarket Approval (PMA), or as applicable, 510(k)
	TRL 7	Class III clinical end points and test plans are agreed upon by CDRH. For 510(k), final prototype and/or initial commercial-scale device is produced and tested in a military operational environment; info and data support preparation of 510(k).
Technology Demonstration	TRL 6	Class III device safety demonstrated, support proceeding to clinical safety and effectiveness trials. For 510(k), info and data support production of final prototype and final testing in a military operational environment.
Technology Development	TRL 5	Investigational Device Exemption (IDE) review by CDRH results in determination that investigation may begin. For 510(k), prelim findings suggest the device will be substantially equivalent to a predicate device.
	TRL 4	PoC and safety of candidate devices/systems are demonstrated in defined laboratory / animal model(s).
Research to Prove Feasibility	TRL 3	Hypothesis testing and initial proof-of-concept (PoC) demonstrated in limited number of laboratory models.
Basic Technology Research	TRL 2	Hypothesis(es) generated. Research ideas and protocols developed.
	TRL 1	Maintain scientific awareness; tech watch. Scientific literature reviews and market surveys initiated and assessed.

Biomedical Technology Readiness Levels

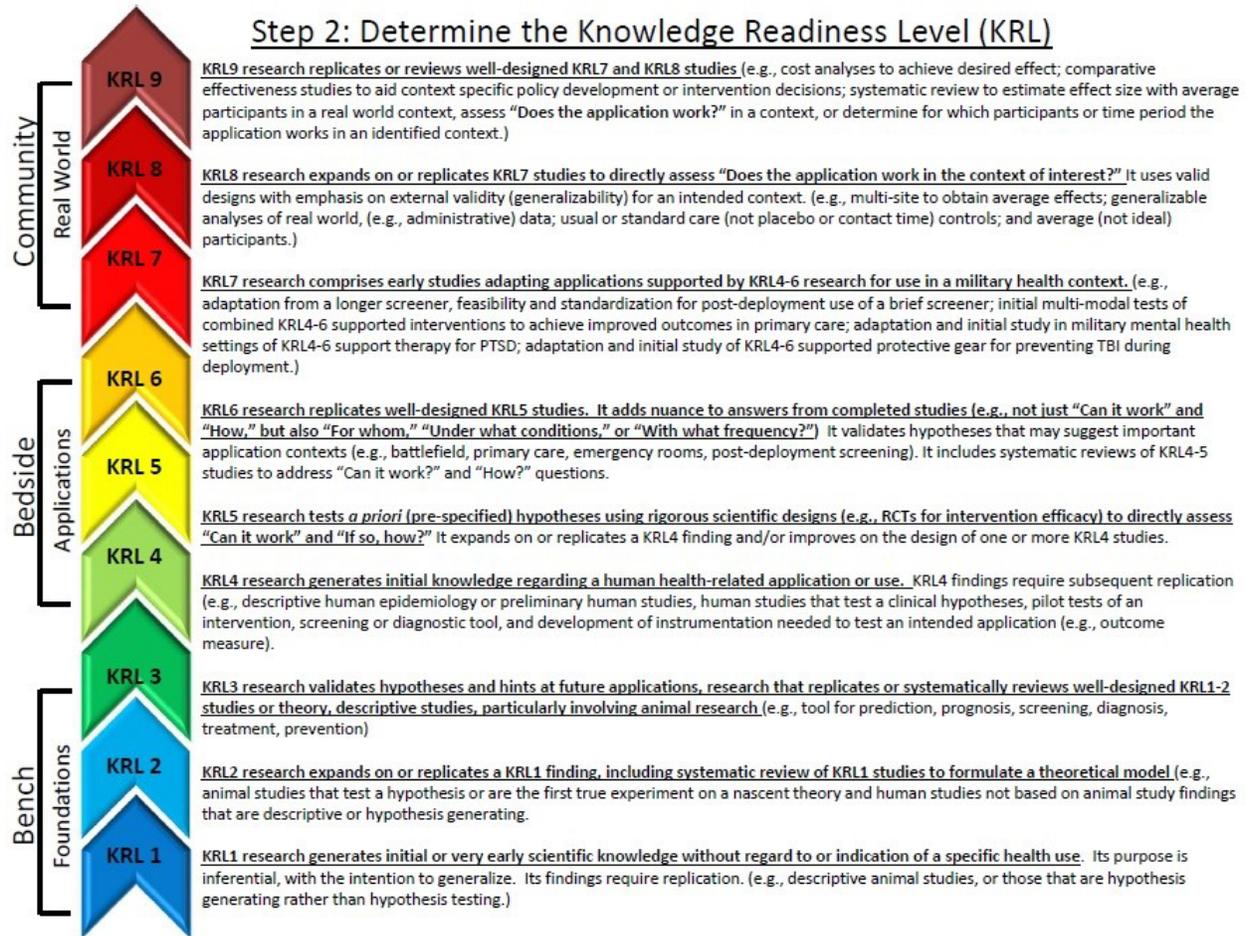
Medical IM/IT & Medical Informatics

System Test, launch & Operations	TRL 9	Product successfully used in military mission as part of Initial Operational Test and Evaluation (IOT&E). Logistical Demonstration successfully conducted.
System/Subsystem Development	TRL 8	Development Test & Evaluation (DT&E) of the HW/SW system in its intended environment. Demonstrated it meets design specifications. Validated in several operational environments.
	TRL 7	System is operationally integrated and tested with target applications in operational environment with end users.
Technology Demonstration	TRL 6	System tested with interfaces & support systems in relevant or simulated operational environment. Configuration Management Approach Developed.
Technology Development	TRL 5	Models are implemented into data/knowledge system & tested in lab environment. Actual interfaces specified.
Research to Prove Feasibility	TRL 4	Prototype produced. HW/SW pieces work together. Models use real data/knowledge.
	TRL 3	Data and knowledge representation schema modeled.
Basic Technology Research	TRL 2	System concepts documented. Schema defined. Data and knowledge representation issues defined.
	TRL 1	Identified potential medical solution to mission need. Defined data & knowledge representation Issues.

Step 1: Determine the Knowledge Product (KP):



Step 2: Determine the Knowledge Readiness Level (KRL)



APPENDIX 3: FAR & DFARS CLAUSES APPLICABLE TO CONTRACTS REQUIREMENTS

FAR/DFARS Provisions/Clauses: For purposes of illustration, the following provisions and clauses may be applicable to procurement contracts resulting from the MMRDA. Additional clauses apply based upon contract type. USAMRAA reserves the right to include all relevant and current FAR or DFARS clauses in the final contract award.

# Provision	Clause
52.204-7	System for Award Management
52.204-13	System for Award Management Maintenance
52.204-16	Commercial and Government Entity Code Reporting
52.204-21	Basic Safeguarding of Covered Contractor Information Systems
52.204-24	Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment
52.204-25	Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment
52.204-26	Covered Telecommunications Equipment or Services-Representation
52.204-27	Prohibition on ByteDance Covered Application
52.209-9	Updates of Publicly Available Information Regarding Responsibility Matters
52.215-16	Facilities Capital Cost of Money
52.215-20	Requirements for Certified Cost and Pricing Data and Data Other than Certified Cost and Pricing Data
52.215-22	Limitations on Pass Through Charges - Identification of Subcontract Effort
52.216-1	Type of Contract
52.216-27	Single or Multiple Awards
52.217-4	Evaluation of Options Exercised at time of Contract Award
52.217-5	Evaluation of Options
52.217-9	Option to Extend the Term of the Contract
52.222-24	Preaward On-Site Equal Opportunity Compliance Evaluation (Applies if Exceeds \$10M)
52.222-50	Combating Trafficking in Persons
52.222-56	Certification Regarding Trafficking in Persons Compliance Plan
52.223-6	Drug Free Work Place
52.226-2	Historically Black College or University and Minority Institution Representation
52.230-7	Proposal Disclosure - Cost Accounting Practice Changes
52.232-15	Progress Payments Not Included
52.233-2	Service of Protest
52.252-1	Solicitation Provisions Incorporated by Reference
52.252-3	Alterations in Solicitation
52.252-5	Authorized Deviations in Provisions
252.203-7002	Requirement to Inform Employees of Whistleblower Rights
252.203-7005	Representation Relating to Compensation of Former DoD Officials
252.204-7000	Disclosure of Information
252.204-7007	Alternate A, Annual Representations and Certifications

# Provision	Clause
252.204-7008	Compliance with Safeguarding Covered Defense Information Controls
252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting
252.204-7018	Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services
252.204-7019	Notice of NIST SP 800-171 DoD Assessment Requirements
252.204-7020	NIST SP 800-171 DoD Assessment Requirements
252.215-7003	Requirements for Submission of Data Other than Certified Cost or Pricing Data - Canadian Commercial Corporation
252.219-7000	Advancing Small Business Growth
252.225-7048	Export Controlled Items
252.225-7055	Representation Regarding Business Operations with the Maduro Regime
252.225-7057	Preaward Disclosure of Employment of Individuals Who Work in the People's Republic of China
252.225-7058	Postaward Disclosure of Employment of Individuals Who Work in the People's Republic of China
252.225-7059	Prohibition on Certain Procurements from the Xinjiang Uyghur Autonomous Region—Representation
252.225-7060	Prohibition on Certain Procurements from the Xinjiang Uyghur Autonomous Region
252.225-7966	Prohibition Regarding Russian Fossil Fuel Business Operations—Representation
252.225-7967	Prohibition Regarding Russian Fossil Fuel Business Operations
252.235-7010	Acknowledgement of Support and Disclaimer
252.235-7011	Final Scientific or Technical Report