Program Announcement for the Department of Defense Defense Health Program

Toxic Exposures Research Program Investigator-Initiated Research Award

Funding Opportunity Number: HT942525TERPIIRA

Pre-Application Due: July 29, 2025

Application Due: October 16, 2025

This program announcement must be read in conjunction with the General Application Instructions, version CD25_01.

Content

Before You Begin

- **Active SAM.gov, eBRAP.org, and Grants.gov registrations are required for application submission.** User registration for each of these websites can take several weeks or longer. Each applicant must ensure their registrations are active and up to date prior to application preparation.

- **Read the funding opportunity announcement in the order it is written before beginning to prepare application materials**. It is the responsibility of the applicant to determine whether the proposed research meets the intent of the funding opportunity and that all parties meet eligibility requirements.

- Refer to the fiscal year 2025 (FY25) Congressionally Directed Medical Research Programs' (CDMRP) Frequently Asked Questions document for answers to common inquiries regarding the funding opportunity announcements and application process.

Who to Contact for Support

eBRAP Help Desk	**Grants.gov Contact Center**
301-682-5507	800-518-4726
help@eBRAP.org	International: 1-606-545-5035
	support@grants.gov
Questions regarding funding opportunity submission requirements, as well as technical assistance related to pre-application or intramural application submission.	*Questions regarding Grants.gov registration and Workspace.*

This document uses internal links; you can go back to where you were by pressing Alt + left arrow key (Windows) or command + left arrow key (Macintosh) on your keyboard.

1. Basic Information About the Funding Opportunity

Summary: The FY25 Toxic Exposures Research Program (TERP) Investigator-Initiated Research Award (IIRA) is intended to support studies that will make an important contribution toward research and/or patient care for diseases or conditions associated with military-related toxic exposures. Research projects may focus on any phase of research from basic laboratory research through translational research, including preclinical studies in animal models and human subjects, as well as correlative studies associated with an existing clinical trial. New Approach Methodologies may also be used.

Funding Details: The CDMRP expects to allot approximately $3.85 million (M) to fund approximately five Investigator-Initiated Research Award applications with total cost caps of $770,000. The maximum period of performance is 3 years. It is anticipated that awards made from this FY25 funding opportunity will be funded with FY25 funds, which will expire for use on September 30, 2031. Awards supported with FY25 funds will be made no later than September 30, 2026.

Submission and Review Dates and Times

- **Pre-Application Submission Deadline:** 5:00 p.m. Eastern Time (ET), July 29, 2025

- **Invitation to Submit an Application:** September 4, 2025

- **Application Submission Deadline:** 11:59 p.m. ET, October 16, 2025

- **End of Application Verification Period:** 5:00 p.m. ET, October 21, 2025

- **Peer Review:** December 2025

- **Programmatic Review:** February 2026

Announcement Type: Initial

Funding Opportunity Number: HT942525TERPIIRA

Assistance Listing Number: 12.420

2. Eligibility Information

2.1. Eligible Applicants

2.1.1. Organization

Extramural and intramural organizations are eligible to apply*, including foreign and domestic organizations, for-profit and non-profit organizations, and public or private entities*.

Extramural Organization: An eligible non-Department of Defense (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.

2.1.2. Principal Investigator

Independent investigators at all career levels may be named by their organizations as the Principal Investigator (PI) on the application.

Individuals in a mentored position (e.g. postdoctoral fellows, clinical fellows) are not considered independent investigators.

Individuals affiliated with an eligible organization are eligible to be named as PI regardless of ethnicity, nationality, or citizenship status.

2.2. Cost Sharing

Cost sharing is not an eligibility requirement.

2.3. Other

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

3. Program Description

The U.S. Army Medical Research Acquisition Activity (USAMRAA) is soliciting applications to this funding opportunity using delegated authority provided by United States Code, Title 10, Section 4001 (10 USC 4001). The CDMRP at the U.S. Army Medical Research and Development Command (USAMRDC) is the program office managing this FY25 funding opportunity as part of the TERP. Congress initiated the TERP in FY22 to provide solutions toward the prevention, diagnosis, treatment, and mechanistic understanding of the adverse health outcomes associated with a broad range of military-related toxic exposures. Appropriations for the TERP from FY22 through FY24 totaled $90M. The FY25 appropriation is $15M.

The vision of the TERP is to prevent, minimize, and mitigate the impact of military-related toxic exposures and improve the health and quality of life of those affected. The mission of the TERP is to support impactful research aimed at identifying the cause and understanding the health outcomes, comorbidities and pathological mechanisms associated with military-related toxic exposures to facilitate the prevention, diagnosis and treatment of the visible and invisible diseases and symptoms impacting Service Members, their Families, Veterans and the American public.

Impactful and highly relevant research will be hypothesis-driven and consider the health care needs of Service Members, their Families, Veterans, and/or the American public with symptoms, diseases, or conditions as a result of military-related toxic exposures and/or the need to minimize toxic exposures for military and civilian populations.

Applicants are strongly encouraged to review, [Appendix 2, TERP Definitions](#), before writing and submitting their application.

Collaboration with DOD and/or U.S. Department of Veterans Affairs (VA) researchers and clinicians is encouraged.

3.1. Award History

The TERP Investigator-Initiated Research Award mechanism was first offered in FY22. Since then, 373 Investigator-Initiated Research Award applications were received, and 37 applications were recommended for funding.

3.2. Intent of the Investigator-Initiated Research Award

The intent of the FY25 TERP IIRA is to support studies that will make an important contribution toward research and/or patient care for diseases or conditions associated with military-related toxic exposures. Research projects may focus on any phase of research from basic laboratory research through translational research, including preclinical studies in animal models and human subjects, as well as correlative studies associated with an existing clinical trial. New Approach Methodologies may also be used.

3.2.1. TERP Program Goals and Topic Areas

To meet the intent of the award mechanism, applicants to the IIRA are required to address **at least one of the FY25 TERP Program Goals _and_ at least one of the FY25 TERP Topic Areas**. Proposed research may be related to diseases, conditions, or symptoms supported by other CDMRP programs; however, IIRA applications must be relevant to military-related toxic

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exposures. Selection of the program goal(s) and topic area(s) is the responsibility of the applicant. Selection must be made during the pre-application submission process and addressed in detail in the full application submission.

Program Goals: *The FY25 TERP Program Goals are not listed in order of importance.* Bulleted items are provided for additional context on current program priorities and, while encouraged, they are not required to be specifically addressed by applications.

1. ***Predict and prevent military-related toxic exposures*** *by identifying strategies that can anticipate, identify, monitor and prevent Service Members and the American public from adverse effects of exposures to toxic substances.*

   o Adapt or optimize assays/devices to identify military-related exposures across environments that lead to adverse health effects.

   o Adapt or optimize personal monitoring devices to detect and characterize toxic exposures.

   o Advance exposure assessment methodologies, including but not limited to direct-reading, integrated measurements and machine learning.

2. ***Elucidate mechanisms of how military-related toxic exposures result in adverse effects,*** *including but not limited to toxicities, malignancies, neurologic and respiratory disorders, cardiac complications, sleep disorders, immune system dysfunction, gastrointestinal issues, etc.*

   o Understand the full range of effects from military-related environmental and toxic exposures, including but not limited to long-term illnesses such as Gulf War illness (GWI), cancers (including rare cancers), cardiopulmonary and airway conditions, Parkinson's disease and other neurologic disorders, etc.

   o Evaluate the effects of epigenetic and genomic mechanisms on potential long-term outcomes.

   o Identify biological and/or psychosocial variables that can impact disease outcomes.

   o Identify risk factors and/or biological factors that affect responses to toxic exposures.

   o Understand complex, multi-exposure/physiological or non-chemical stressors (e.g., hormonal, sleep disorders, thermal stress) combinations and how exposure impacts outcome.

   o Address the need for preclinical models that capture the adverse outcomes of human toxic exposures.

3. ***Diagnose the effects of military-related toxic exposures****, understand the phenotypic, pathological and clinical outcomes associated with short-term and long-term exposures, and predict disease progression.*

   o Identify behavioral factors (smoking, substance abuse, etc.), comorbidities and preexisting medical conditions that may impact exposure outcomes.

   o Identify biomarkers of exposure to individual or multiple toxic substances alone or in combination with physiological/non-chemical stressors.

   o Develop diagnostic screens/assays/devices for toxic exposures.

4. ***Develop therapeutics, treatments and strategies*** *to minimize symptoms and disease progression associated with military-related toxic exposures.*

- o Evaluate existing therapeutics, treatments and strategies.

- o Advance new therapeutics, treatments and strategies.

5. ***Understand the multigenerational effects of military-related toxic exposures*** *and how they impact those exposed, their partners, and their descendants.*

- o Understand the link between adverse maternal and paternal reproductive outcomes (including birth defects) and military-related toxic exposures.

- o Evaluate the mechanisms of multigenerational effects of military-related toxic exposures.

- o Understand the cumulative effects of military-related toxic exposures with other military stressors on multigenerational outcomes.

Topic Areas: *Topic areas are not listed in order of importance.*

1. Neurotoxin Exposure

2. Gulf War Illness (GWI) and Its Treatment

3. Airborne Hazards and Burn Pits

4. Other Military Service-Related Toxic Exposures in General, Including Prophylactic Medications, Pesticides, Organophosphates, Toxic Industrial Chemicals, Materials, Metals and Minerals

3.2.2. TERP Additional Guidance

Studies focused on the following areas do NOT meet the intent of the FY25 TERP:

- Research data that are classified and/or research in which the anticipated outcomes may be classified or deemed sensitive to national security concerns.

- Chemical warfare agents categorized as fourth-generation agents or non-traditional agents (NTAs).

- Biological Select Agents or Toxins.

- Anomalous Health Incidents, commonly referred to as Havana Syndrome.

- Directed energy weapons.

- Development of medical countermeasures (MCMs) or devices intended to diagnose, detect, prevent or treat the immediate (point of injury) health effects of chemical weapons, biological, radiological or nuclear threats.

- Treatments or therapeutics for the immediate, adverse health effects of any exposure that would be administered in an acute care setting, i.e., role of care (ROC) 1 or ROC 2.

  - o In the military health echelon/ROC, this generally refers to ROC 1 and ROC 2 described below:

    - – ROC 1: Unit-level medical care, ranging from point of injury through battalion aid station.

    - – ROC 2: Advanced trauma management and emergency medical treatment.

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– For more information on the military roles of care, refer to Chapter 2, "Roles of Medical Care (United States)," Emergency War Surgery, Fifth United States Edition, 2018, Borden Institute.

Studies focused on the following areas ARE permitted. *These examples are meant to inform prospective applicants in the context of the above exclusions and do not imply that these research areas are prioritized over any others within the scope of the* FY25 TERP Program Goals *and* FY25 TERP Topic Areas*.*

- Evaluation/treatment of long-term or chronic health impacts of traditional chemical weapons, including but not limited to the long-term effects of sub-lethal doses of sarin, soman, and sulfur mustard and Gulf War illness.

- Other long-term/chronic effects of military-related exposures that would be diagnosed or treated at a ROC 3 (field hospital) or ROC 4 (definitive care; fixed medical treatment facility) or beyond.

3.2.3. Key Elements for the IIRA

- **Impact:** Applications should explain how the proposed research will have a significant impact on military-related toxic exposure research and/or patient care with the intent to transition outcome(s)/product(s) (intellectual knowledge and/or tangible materiel) into clinical practice for Service Members, their Families, Veterans, and/or the American public who have been or could potentially be impacted by toxic exposures. Applications should demonstrate both the short- and long-term impacts and how the successful completion of the proposed research will impact a critical problem or question in the field of research and/or patient care in at least one of the FY25 TERP Program Goals and at least one of the FY25 TERP Topic Areas.

- **Preliminary Data are required.** The rationale for a research idea may be derived from laboratory discovery, population-based studies, a clinician's firsthand knowledge of patients, or anecdotal data. Applications must include relevant preliminary data that support the rationale for the proposed study. These data may be unpublished or from published literature.

3.2.4. Other Important Considerations for the IIRA

IIRA applications may include preclinical studies (including research involving animals) and/or clinical research involving human subjects, human anatomical substances, and human datasets, including correlative studies associated with an existing clinical trial; ***however, the FY25 TERP IIRA may not be used to conduct clinical trials***. As stated in Section 9.2.3, Withdrawal, applications including clinical trials will be withdrawn.

Applications proposing clinical trials may be submitted to the following FY25 TERP funding opportunity:

- Clinical Trial Partnership Award (Funding Opportunity Number HT942525TERPCTPA)

It is the responsibility of the applicant to review the program announcement requirements and select the funding opportunity that aligns with the scope of the proposed research. Applications submitted under a mechanism that is not deemed appropriate for the type and scope of research requested will not be recommended for funding.

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. An *intervention* includes both physical procedures by which information or biospecimens are gathered and manipulations of the subject or the subject's environment that are performed for research purposes.

Studies that do not seek to measure safety, effectiveness, and/or efficacy outcome(s) of an intervention are not considered clinical trials.

For the purposes of this funding opportunity, research that meets the definition of a clinical trial is distinct from clinical research. 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.

Excluded from the definition of clinical research are in vitro studies that utilize human data or specimens that cannot be linked to a living individual and meet the requirements for exemption under §46.104(d)(4) of the Common Rule.

Studies using human subjects, human anatomical substances, and/or datasets are strongly encouraged to use relevant military and/or Veteran populations/samples/datasets. Applications not using military and/or Veteran populations/samples/datasets are strongly encouraged to provide justification for how the chosen populations/samples/datasets are relevant to military-related toxic exposures and will benefit Service Members, their Families, and/or Veterans.

Rigorous Study Design: All projects should adhere to a core set of standards for rigorous study design and reporting to maximize the reproducibility and translational potential of preclinical research. The standards are described in SC Landis et al., 2012, A call for transparent reporting to optimize the predictive value of preclinical research, Nature 490:187-191. While these standards are written for preclinical studies, the basic principles of randomization, blinding, sample-size estimation, and data handling derive from well-established best practices in clinical studies.

Research Involving Animal Models: If animal models are proposed, consider the following:

- Pairing clinical populations to animal models in order to validate the clinical relevance and development of prevention, assessment, and treatment solutions is encouraged.

- For studies using animal models, the use of an established model is preferred unless there is a compelling scientific justification for the development or use of a new model.

- Proposed animal models should be well-justified, supported within the literature, and clearly align with clinical relevance.

- For studies proposing GWI research with animal models, a list of animal models funded by the former DOD CDMRP Gulf War Illness Research Program (GWIRP) is available at https://cdmrp.health.mil/gwirp/resources/amodels.

Use of DOD or VA Resources: Applications including investigators within the DOD and applications involving multidisciplinary collaborations among academia, industry, the DOD, 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 must describe the access at the time of submission and include a plan for maintaining access as needed throughout the proposed research.

Resources for Data and/or Previously Collected Biospecimens

Appendix 3 is provided as a reference and is not an exhaustive list of all resources that may be applicable to the proposed research. Researchers are not required to use any of the following limited examples or any one particular dataset.

The TERP does not facilitate access to any of these resources and/or control the information presented on the websites listed in Appendix 3.

3.3. CDMRP-wide Encouragement(s)

The following encouragements are broadly applicable across many CDMRP programs, including the TERP. Investigators are encouraged to consider addressing these areas in their applications if doing so is appropriate for their line of research and meets the intent of this funding opportunity.

Innovative research involving nuclear medicine and related techniques to support early diagnosis, more effective treatment, and improved health outcomes of Service Members and their Families is encouraged. Such research could improve diagnostic and targeted treatment capabilities through noninvasive techniques and may drive the development of precision imaging and advanced targeted therapies.

The CDMRP encourages research on health areas and conditions that affect women uniquely, disproportionately, or differently from men. Such research should relate anticipated project findings to improvements in women's health outcomes and/or advancing knowledge for women's health.

3.4. Funding Instrument

The funding instrument for awards made under the program announcement will be grants (31 USC 6304).

3.5. Funding Details

Period of Performance: The maximum period of performance is **3** years.

Cost Cap: The application's total costs budgeted for the entire period of performance should not exceed **$770,000**. 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 may request the entire maximum funding amount for a project that may have a period of performance less than the maximum 3 years.

The appropriateness of the budget for the proposed research will be assessed during peer review.

Direct Cost Restrictions: For this award mechanism, direct costs:

May be requested for (not all-inclusive):

- Travel in support of multi-institutional collaborations.

- Travel for one investigator to attend one scientific/technical meeting per year. The intent of travel to scientific/technical meetings should be to present project information or disseminate project results from the FY25 TERP IIRA.

- Research subject compensation and reimbursement for study-related out-of-pocket costs (e.g., travel, lodging, parking, costs associated with caregiving, and resources/equipment to enable participation).

Must not be requested for:

- Travel to scientific/technical meeting(s) beyond the limits stated above.

- Clinical trial costs.

4. Application Contents and Format

4.1. Application Overview

Application submission is a two-step process requiring both a ***pre-application*** submitted via the Electronic Biomedical Research Application Portal ([eBRAP](#)) and a ***full application*** submitted through eBRAP or Grants.gov. Depending on the submission portal, certain aspects of the application will differ.

Intramural DOD organizations submitting a full application should follow instructions for submission through eBRAP.

Extramural organizations submitting a full application must follow instructions for submission through Grants.gov.

4.2. Step 1: Pre-Application Components

Pre-application submissions must include the following components.

Note: Upload documents as individual PDF files unless otherwise noted.

- **Preproposal Narrative (two-page limit):** The Preproposal Narrative page limit 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 to expand the Preproposal Narrative and could confer an unfair competitive advantage is prohibited and may result in administrative withdrawal of the pre-application.

  The Preproposal Narrative should include the following:

  - **Background/Rationale:**
    - State the hypothesis of the proposed study and provide a brief explanation of the study rationale clearly articulating how the hypothesis and rationale are well-supported/justified.

  - **Specific Aims and Study Design:**
    - Concisely state the specific aims of the proposed study.
    - Briefly describe the experimental methods and approaches.
    - As applicable, succinctly describe the proposed model system(s) (cellular, animal, etc.), human samples, human datasets and/or human subjects.
      - If human subjects, samples and/or datasets will be used, indicate whether the proposed project will use military and/or Veteran populations/samples/datasets OR how the chosen population/samples/datasets are relevant to military-related toxic exposures and will benefit Service Members, their Families, and/or Veterans.

  - **Alignment:**
    - Describe how the proposed project addresses at least one of the [FY25 TERP Program Goals](#) and at least one of the [FY25 TERP Topic Areas](#).

○ **Impact and Relevance to Military Health:**

– State both the short- and long-term impacts and how the successful completion of the proposed research will advance the research field and ultimately lead to new treatments/therapeutics, diagnostic assays, or prevention strategies to improve the quality of life for those that have been impacted by or are likely to encounter toxic substances.

– State how the proposed research is responsive to the health care needs of Service Members, their Families, and/or Veterans that have been or could potentially be exposed to military-related toxic exposures.

– Describe how research findings could also benefit the general population.

- **Pre-Application Supporting Documentation:** The items to be included as supporting documentation for the pre-application *must be uploaded as individual files* and are limited to the following:

○ **References Cited (one-page limit):** List the references cited (including URLs if available) in the Preproposal Narrative using a standard reference format that includes the full citation (i.e., author[s], year published, reference title, and reference source, including volume, chapter, page numbers, and publisher, as appropriate).

○ **List of Abbreviations, Acronyms, and Symbols:** Provide a list of abbreviations, acronyms, and symbols used in the Preproposal Narrative.

○ **Key Personnel Biographical Sketches:** *All biographical sketches should be uploaded as a single combined file.* Biographical sketches should be used to demonstrate background and expertise through education, positions, publications, and previous work accomplished.

4.3. Step 2: Full Application Components

Applicants **must** receive an invitation to submit a full application. Uninvited full application submissions will be rejected.

Each application submission must include the completed full application package for this program announcement. See Appendix 1 for a checklist of the full application components.

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

IMPORTANT: When completing the SF424 R&R, enter the eBRAP log number assigned during pre-application submission into Block 4a – Federal Identifier.

(b) **Attachments:**

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

○ **Attachment 1: Project Narrative (13-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.

Describe the proposed project in detail using the outline below.

– **Background/Rationale:** Describe in detail the scientific rationale for the study. Applications must include relevant preliminary data that support the rationale for the proposed study; data may be unpublished or from published literature, including preliminary data and/or preclinical data originating from the applicant's laboratory or other external laboratories. The rationale should include a literature review that supports the development of the proposed project. The background section should clearly support the choice of the study variable and should explain the basis for the study questions and/or hypotheses. Provide a summary of relevant prior preclinical and/or clinical work and distinguish how the proposed study differs from other relevant or recently completed research. State the relevance of the proposed research and the applicability of the anticipated findings to the intent of the mechanism and to at least one of the FY25 TERP Program Goals and at least one of the FY25 TERP Topic Areas.

– **Hypothesis or Objective:** Clearly state the hypothesis to be tested or the objective(s) to be reached.

– **Specific Aims:** State and concisely explain the project's specific aims. These aims should agree with the aims and associated tasks described in Attachment 5, Statement of Work (SOW). If the proposed research project is part of a larger study, present only tasks that this TERP award would fund.

– **Research Strategy and Feasibility:**

  ▪ Describe the experimental design, methods, analyses, and models, including appropriate controls, in sufficient detail to allow for their appropriateness and feasibility to be assessed. Identify how the research strategy and approaches will meet the project's goals and milestones.

  ▪ Describe the statistical model and data analysis plan and how the data will be handled and analyzed. Provide a sample size estimate and the method by which it was derived, including power analysis calculations. If applicable, indicate rules for stopping data collection, criteria for inclusion and exclusion of data, and how outliers will be defined and handled.

  ▪ Describe how the data and documentation will support a regulatory filing with a Regulatory Agency or the next stage of development, if applicable.

  ▪ Describe how the proposed project is feasible and will be completed within the proposed performance period.

  ▪ Address potential research challenges and pitfalls and provide alternative methods and approaches.

  ▪ If cell lines or animals are to be used, justify why the proposed cell line(s) or animal model(s) were chosen and discuss the model's clinical relevance to human biology (including but not limited to routes of human exposures, exposure dose, outcomes [human symptoms, diseases/conditions] associated with exposures and the types of exposures potentially encountered). ***For animal studies, full details will be required in the Animal Research Plan (Attachment 7).***

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- ▪ If proposing a correlative study, specify how the proposed project complements the existing research efforts and provides additional relevant insight beyond the initial study design.

- ▪ If human subjects, human biological samples, or datasets will be used, describe the study population and the appropriateness of the designated study population for the proposed study. ***Applicants are strongly encouraged to use relevant military and/or Veteran populations/samples/datasets.*** If a non-military population will be used for the proposed research project to simulate a military-related toxic exposure, explain how the population simulates the targeted population and how the results will benefit Service Members, their Families, and/or Veterans.

  Include an overview of the recruitment of human subjects and/or the acquisition of samples/datasets (i.e., the nature, approximate number, pertinent demographic characteristics and criteria for inclusion/exclusion). Describe the availability of the proposed study population(s), samples and/or datasets, including feasibility of accessing the population(s)/samples/dataset(s), past successes in recruiting and/or accessing similar population(s)/samples/datasets and plans to maintain access throughout the entire proposed research study. Identify any potential barriers to accrual/retention and provide mitigation plans for addressing unanticipated delays. Identify ongoing clinical research/trials that may compete for the same study population or samples and how they may impact enrollment or sample availability.

  For studies involving Gulf War (GW) Veterans, the use of both the [U.S. Centers for Disease Control and Prevention (CDC) and Kansas case definitions](#) are required. Describe and justify any additional case definition of GWI, including any targeted illness subgroups that will be defined for the study. If proposing clinical research with GW Veterans, the use of the [Common Data Elements (CDEs) for GWI Clinical Research](#) is strongly encouraged. If applicable, describe how the use of GWI CDEs was considered when developing the plans for the collection of clinical data and annotation of clinical samples.

  Clinical trials are not allowed under the FY25 TERP IIRA.

- ○ **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.

  - – **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 Support (two-page limit per letter *is recommended*):** Provide individual letters signed by collaborating individuals and/or organizational officials demonstrating that the PI has the support and resources necessary for the proposed work. Letters from the PI's Department Chair, or appropriate organization official, should also confirm that the PI(s) meet eligibility criteria. If applicable, provide a letter of support, signed by the lowest-ranking person with approval authority, confirming participation of intramural DOD collaborator(s) and/or access to military populations, databases, or DOD resources. If applicable, provide a letter of support signed by the U.S. Department of Veterans Affairs (VA) Facility Director(s), or individual designated by the VA Facility Director(s), confirming access to VA patients, resources, and/or VA research space.

– **Sex as a Biological Variable Strategy (two-page limit is recommended):** Describe the strategy for how sex will be considered as a biological variable. This strategy should include a brief discussion of what is currently known regarding sex differences in the applicable research area. Clearly articulate how sex as a biological variable will be factored into the data analysis plan and how data will be collected and disaggregated by sex. If needed, provide a strong rationale for proposing a single-sex study, based on justification from scientific literature, preliminary data, or other relevant considerations. Refer to the CDMRP Directive on Sex as a Biological Variable in Research for additional information.

– **Intellectual and Material Property Plan (if applicable):** Provide a plan for resolving intellectual and material property issues among participating organizations.

  ▪ Address any impact of intellectual property issues on product development and subsequent government access to products supported by this program announcement.

  ▪ **Commercialization Strategy *(if applicable)*:** Describe the commercialization plan. The plan should include intellectual property, market size, financial analysis, strengths and weaknesses, barriers to the market, competitors, and management team. Discuss the significance of this development effort, when it can be anticipated, and the potential commercial use for the technology being developed.

– **Data and Research Resources Sharing Plan:** Describe the type of data or research resources (e.g., bio-specimen, analysis tool/software, training material) to be made publicly available as a result of the proposed work. Describe how data and resources generated during the period of performance will be shared with the research community and other affected communities. Include the name of the repository(ies) where scientific data and resources arising from the proposed clinical trial 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 and/or research participants. Refer to CDMRP's Policy on Data & Resources Sharing for more information about CDMRP's expectations for making data and research resources publicly available.

– **Use of DOD or Department of VA Resources** *(if applicable)*: If the proposed research involves access to 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. Also include a plan for obtaining any required data sharing, memorandum of understanding, or other agreements required to access and publish data. Refer to the General Application Instructions, Appendix 4, for additional considerations.

– **Inclusion Enrollment Plan** *(if applicable; only required if clinical research is proposed)*: 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. The enrollment table(s) should be appropriate to the objectives of the study with the proposed enrollment distributed on the basis of sex, race, and ethnicity. Studies utilizing human biospecimens or datasets that cannot be linked to a specific individual, ethnicity, or race (typically classified as exempt from Institutional Review Board [IRB] review) are exempt from this requirement.

– **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.

○ **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/Rationale:** Present the scientific rationale behind the proposed research project.

– **Hypothesis/Objective(s):** State the hypothesis to be tested and/or objective(s) to be reached.

– **Specific Aims:** State the specific aims of the proposed research project.

– **Study Design:** Briefly describe the experimental design, including model system(s) and appropriate controls.

– **Impact:** Briefly describe how the proposed research will have a significant impact on toxic exposure research and/or patient care with the intent to transition outcomes into clinical practice for Service Members, their Families, Veterans, and/or the American public that have been, or could potentially be, impacted by military-related toxic exposures. State both the short- and long-term impacts and how the proposed research will ultimately lead to new treatments/therapeutics, diagnostic assays or prevention strategies to improve the quality of life for those that have been impacted by, or are likely to encounter, toxic substances.

– **Relevance to the TERP:** Applications should articulate how the proposed research is relevant to at least one of the FY25 TERP Program Goals and addresses at least one of the FY25 TERP Topic Areas.

– **Relevance to Military Health:** State how the proposed research is responsive to the health care needs of Service Members, their Families, and/or Veterans that have been or could potentially be exposed to military-related toxic exposures. Describe how research findings could also benefit the general population.

○ **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.

– Describe the ultimate applicability of the research and how it addresses at least one of the FY25 TERP Program Goals and at least one of the FY25 TERP Topic Areas.

– Indicate what population(s) the research will help, and how it will help them.

– Describe potential clinical applications, benefits, and risks.

– If the research is too basic for immediate clinical applicability, then describe the interim outcomes.

– Describe the projected timeline to achieve the expected patient-related outcome.

– Describe the likely contributions of the proposed research project to advance knowledge, lead to new treatments/therapeutics, diagnostic assays or prediction and prevention strategies to improve the quality of life for those that have been impacted by, or are likely to encounter, toxic substances.

– Describe how the proposed project will impact the health and well-being of Service Members, their Families, and/or Veterans.

○ **Attachment 5: Statement of Work (five-page limit): Upload as "SOW.pdf".** Refer to eBRAP for the "Suggested SOW Format."

Guidance for preparing the SOW for the IIRA can be found in either the "Example: Assembling a Clinical Research and/or Clinical Trial Statement of Work" or "Example: Assembling a Generic Statement of Work," as appropriate for the proposed effort.

The SOW should state the specific aims described in the Project Narrative and include a list of major tasks and subtasks that support the completion of the stated aims, including milestones for completing the aims during the period of performance. The SOW should describe only the work for which funding is being requested by this application and, as applicable:

– Include the name(s) of the key personnel for each study site/subaward site.

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- Indicate the number (and type, if applicable) of research subjects (animal or human) and/or human anatomical samples projected or required for each task and at each site.

- Identify cell line(s) and commercial or organizational source(s) to be used.

- If applicable, indicate timelines required for regulatory approvals relevant to animal or human subjects research (e.g., local [Institutional Animal Care and Use Committee [IACUC]/IRB] and federal [USAMRDC Office of Human and Animal Research Oversight [OHARO]] approvals). Refer to the General Application Instructions, Appendix 6, for additional information regarding regulatory requirements.

- For studies with prospective accrual of human subjects, indicate quarterly enrollment targets. If applicable, indicate timelines and approvals required to obtain access to databases, repositories or other resources.

○ **Attachment 6: Impact and Relevance to Military Health Statement (three-page limit): Upload as "Impact.pdf".** The Impact and Relevance to Military Health Statement must demonstrate how a successful outcome of the proposed research project will advance at least one of the FY25 TERP Program Goals and at least one of the FY25 TERP Topic Areas. *The Impact and Relevance to Military Health Statement should be written in a manner that will be readily understood by readers without a background in science or medicine.*

- Describe how a successful outcome of the proposed research project will reduce the burden (effects/outcomes, new exposures, etc.) of military-related toxic exposures for Service Members, their Families, Veterans, and/or the American public**.**

- **Describe the short-term impact:** Detail the anticipated outcome(s)/product(s) (intellectual knowledge and/or tangible materiel) that will make important scientific advances and improve the understanding, prevention/prediction, diagnosis and/or treatment of military-related toxic exposures.

- **Describe the long-term impact:** Explain the anticipated long-term benefits from this research and how it will impact the field of study and/or the lives of relevant patient or community populations. Explain the anticipated long-term benefits from this research in the clinic or field. Discuss how the proposed materiel or knowledge product represents an improvement to currently available prevention strategies, treatments/interventions, diagnostic approaches, devices, or clinical practice guidelines, if applicable.

- Describe how the proposed effort is responsive to the health care needs and quality of life of Service Members, their Families, and/or Veterans.

  ▪ Provide a description of how the knowledge, information, products, or technologies gained from the research could be implemented in a dual-use capacity to benefit the civilian population and address a military need, as appropriate.

  ▪ Describe any limitations to the impact of the proposed research, even if the study is successful.

- If applicable, describe how the anticipated outcomes of the proposed study will make an impact in understanding health differences between sexes.

○ **Attachment 7: Animal Research Plan (five-page limit per animal study): Upload as "AnimalResPlan.pdf".** *(Attachment 7 is only applicable and required for applications proposing animal studies.)*

Proposed studies should not rely on samples, reagents, or tools that are contingent upon completion of other ongoing efforts outside the scope of this research project.

If the proposed study involves animals, a summary describing the animal research that will be conducted must be included in the application. Consult the <u>ARRIVE guidelines 2.0</u> (Animal Research: Reporting *In Vivo* Experiments) to ensure relevant aspects of rigorous animal research are adequately planned for and, ultimately, reported. The Animal Research Plan may not be an exact replica of the protocol(s) submitted to the 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. If using an existing animal model, provide evidence that the chosen animal model(s) is validated and well-justified in the literature. If developing a novel animal model, explain how the animal model is expected to be superior to other existing models (if others exist) and indicate how this model will address the study aims.

– Explain how and why the animal species, strain, and model(s) being used can address the scientific objectives.

– If applicable, describe approaches that will be undertaken to corroborate findings from animal studies to relevant human data sources/populations.

– Summarize the procedures to be conducted. Describe how the study will be appropriately controlled.

– Describe the randomization and blinding procedures for the study, and any 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.

○ **Attachment 8: Use of Hazardous Chemical or Biological Agents** *(if applicable; no page limit)***: Upload as "Hazardous.pdf".** The applicant must submit a plan for acquiring, using, and maintaining hazardous agents if such agents are to be used in the study. The plan must contain all applicable information such as CDC registration, an approved organizational safety plan to use the agent(s), and letters of collaboration, agreement, or approval from government sites issuing any agent(s). Indicate whether agents used are purchased commercially, and, if so, confirm that the amount is under regulated limits. Include a statement addressing this requirement along with accompanying letters of collaboration, approvals, and certifications.

○ **Attachment 9: Study Personnel (one-page limit): Upload as "Personnel.pdf".**

– Discuss the qualifications and experience/expertise of the research team and each individual's specific contributions to the project, including how the appropriate experience is incorporated to address the research question and enable the success of the proposed project.

– Clearly state whether key personnel are not receiving salary from the award. If applicable, provide assurances/letters of commitment that the unpaid personnel will contribute the required level of effort to complete the project.

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- Describe the PI's record of accomplishment and their ability to lead the research team to accomplish the proposed research project. Describe previous experience most pertinent to this project.

  ○ **Attachment 10: Representations** *(Grants.gov submissions only)***: Upload as "RequiredReps.pdf".** All extramural applicants must complete and submit the "Required Representations" document that is available on eBRAP. For more information, see the General Application Instructions, Appendix 8, Section B, Representations.

  ○ **Attachment 11: Suggested Intragovernmental/Intramural Budget Form** *(if applicable)***: Upload as "IGBudget.pdf".** If an intramural DOD organization will be a collaborator in the performance of the project, complete a separate budget for that organization using the "Suggested Intragovernmental/Intramural Budget" form that is available for download on eBRAP. Refer to the General Application Instructions, Section V.B.(c), for instructions and considerations.

(c) Research & Related Personal Data: For detailed instructions for Grants.gov submissions, refer to the General Application Instructions, Section IV.C.(a); and for eBRAP submissions, refer to the General Application Instructions, Section V.B.(a).

(d) Research & Related Senior/Key Person Profile (Expanded): Complete a Profile for each person who will contribute in a substantive, meaningful way to the scientific development or execution of the proposed research project. A biographical sketch and full description of each PI and senior/key person's current/pending support information must be attached to the individual's profile in the Attach Biographical Sketch and Attach Current & Pending Support fields, respectively.

  ○ **Biographical Sketch:** Upload as "Biosketch_LastName.pdf".

  The CDMRP staff and reviewers use biosketches to evaluate whether research teams are equipped with the expertise necessary to carry out the proposed research.

  Biosketches must conform to the federal-wide Biographical Sketch Common Form. To prepare their biosketch attachments, applicants may use the instructions provided in the General Application Instructions, Section IV.C.(b), for Grants.gov submissions; or General Application Instructions, Section V.B.(b), for eBRAP submissions; or may use a pdf form created in SciENcv for the National Institutes of Health (NIH) or the U.S. National Science Foundation (NSF).

  ○ **Current/Pending Support:** Upload as "Support_LastName.pdf".

  Current and pending (other) support information are used to assess the capacity or any conflicts of commitment that may impact the ability of the individual to carry out the research effort as proposed. The information also helps to assess any potential scientific and budgetary overlap/duplication with the project being proposed.

  Current and pending support documentation must conform to the federal wide format. To prepare their Current and Pending Support form, applicants may use the instructions provided in the General Application Instructions, Section IV.C.(b), for Grants.gov submissions; or General Application Instructions, Section V.B.(b), for eBRAP submissions; or may use a pdf form created in SciENcv for NIH or NSF.

(e) Research & Related Budget: For detailed instructions for Grants.gov submissions, refer to the General Application Instructions, Section IV.C.(c); and for eBRAP submissions, refer to the General Application Instructions, Section V.B.(c).

○ **Budget Justification (no page limit):** For instructions for Grants.gov submissions, refer to the General Application Instructions, Section IV.C.(c), Section L; for eBRAP submissions, refer to General Application Instructions, Section V.B.(c), Budget Justification Instructions.

(f) Project/Performance Site Location(s) Form: For detailed instructions for Grants.gov submissions, refer to the General Application Instructions, Section IV.C.(d); and for eBRAP submissions, refer to the General Application Instructions, Section V.B.(d).

(g) Research & Related Subaward Budget Attachment(s) Form *(if applicable, Grants.gov Submissions only)*: Refer to the General Application Instructions, Section IV.C.(e), for detailed information.

○ **Extramural Subaward:** Complete the Research & Related Subaward Budget Form and upload it through Grants.gov.

○ **Intramural DOD Subaward:** Complete a separate "Suggested Intragovernmental/Intramural Budget Form" for each intramural DOD subaward. Combine them into a single document, then upload the file to Grants.gov as an attachment named "IGBudget.pdf".

4.4. Other Application Elements

- If recommended for funding, a data management plan compliant with Section 3.c, Enclosure 3, DoD Instructions 3200.12 will be requested.

- The government reserves the right to request a revised budget, budget justification and/or additional information for applications recommended for funding.

5. Submission Requirements

5.1. Location of Application Package

Download the application package components for HT942525TERPIIRA from Grants.gov or eBRAP, depending on which submission portal will be used.

5.2. Unique Entity Identifier and System for Award Management

The applicant organization must be registered as an entity in the System for Award Management (SAM), SAM.gov, and receive confirmation of an "Active" status before submitting an application through Grants.gov. Organizations must include the unique entity identifier (UEI) generated by the SAM in applications to this funding opportunity and maintain an active registration in the SAM at all times during which it has an active Federal award or an application under consideration. More information regarding SAM registration can be found in the General Application Instructions, Section IV.A.

5.3. Submission Instructions

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

Application Submission Workflow
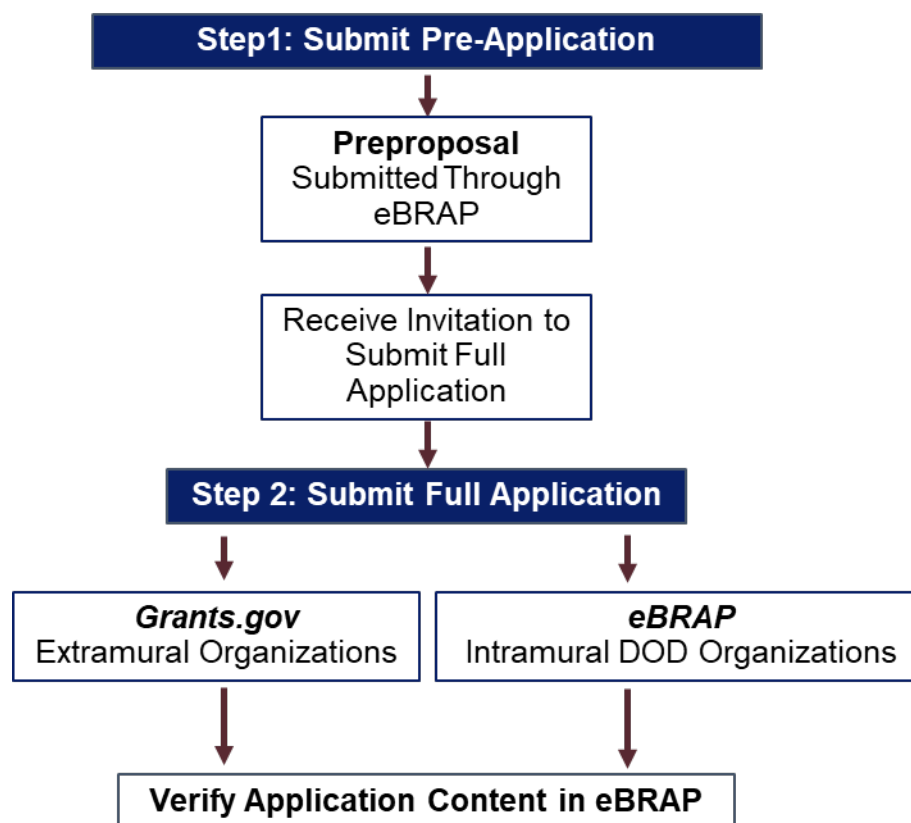
5.3.1. Pre-Application Submission

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

During the pre-application process, eBRAP assigns each submission a unique log number. This unique log number is required during the full application submission process. The eBRAP log number, application title, and all information for the PI, Business Official(s), performing organization, and contracting organization must be consistent throughout the entire pre-application and full application submission process. Inconsistencies may delay application processing and limit or negate the ability to view, modify, and verify the application in eBRAP. If any changes need to be made, the applicant should contact the eBRAP Help Desk at help@eBRAP.org or 301-682-5507 prior to the application submission deadline.

Refer to the General Application Instructions, Section III.A, for considerations and detailed instructions regarding pre-application submission.

5.3.2. Full Application Submission

Grants.gov Submissions: Full applications from extramural organizations *must* be submitted through the Grants.gov Workspace. Refer to the General Application Instructions, Section IV, for considerations and detailed instructions regarding Grants.gov submissions.

eBRAP Submissions: Only intramural DOD organizations may submit full applications through eBRAP. Full applications from extramural organizations, including non-DOD federal organizations, received through eBRAP will be withdrawn. Refer to the General Application Instructions, Section V, for considerations and detailed instructions regarding eBRAP submissions.

5.3.3. Applicant Verification of Full Application Submission in eBRAP

Independent of submission portal, once the full application is submitted, it is transmitted to and processed in eBRAP; the transmission to eBRAP may take up to 48 hours. 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 submission. Verification is strongly recommended but not required. eBRAP will validate full application files against the specific program announcement 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 responsibility to review all application components and ensure the proper ordering as specified in the program announcement. ***The Project Narrative and Research & Related Budget Form cannot be changed after the application submission deadline. If either the Project Narrative or the budget fails eBRAP validation or needs to be modified, an updated full application package must be submitted through the appropriate portal prior to the full application submission deadline.*** Other application components, including subaward budget(s) and subaward budget justification(s), may be changed until the end of the application verification period. The full application cannot be modified once the application verification period ends.

5.4. Submission Dates and Times

The pre-application and full application submission process should be started early to avoid missing deadlines. Regardless of submission portal used, all pre- and full application components must be submitted by the deadlines stipulated in this program announcement. There are no grace periods for deadlines; failure to meet submission deadlines will result in

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application rejection. ***The USAMRAA cannot make allowances/exceptions for submission problems encountered by the applicant.***

All submission dates and times are indicated in Section 1, Basic Information above.

5.5. Intergovernmental Review

Not applicable for this funding opportunity.

6. Application Review Information

6.1. Application Compliance Review

Submitting applications 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).

While it is allowable to propose similar research projects to different programs within CDMRP or to other organizations, duplication of funding or accepting funding from more than one source for the same research is prohibited. See the CDMRP's full position on research duplication.

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

Members of the FY25 TERP Programmatic Panel should not be involved in any pre-application or full application including, but not limited to, concept design, application development, budget preparation, and the development of any supporting documentation, including personal letters of support/recommendation for the research and/or PI. Programmatic panel members *may* provide letters to confirm PI eligibility and access to laboratory space, equipment, and other resources necessary for the project if that is part of their regular roles and responsibilities (e.g., as Department Chair). ***A list of the FY25 TERP Programmatic Panel members can be found on the CDMRP website.***

Additional restrictions and associated administrative responses are outlined in Section 9.2, Administrative Actions.

6.2. Review Criteria

6.2.1. Pre-Application Screening Criteria

To determine the technical merits of the pre-application and the relevance to the mission of the TERP, pre-applications will be screened based on the following criteria:

- **Background/Rationale:**
  - Whether the study rationale and hypothesis are well-supported and justified.
- **Specific Aims and Study Design:**
  - How well the specific aims are stated and whether the experimental approaches are clearly described.
  - If applicable, to what degree the proposed human populations/samples/datasets include Service Members, their Families, and/or Veterans OR whether the proposed populations/samples/datasets are relevant to military-related toxic exposures and will benefit Service Members, their Families, and/or Veterans.
- **Alignment:**
  - How well the proposed project addresses at least one of the FY25 TERP Program Goals and at least one of the FY25 TERP Topic Areas.

○ Whether the proposed project adheres to the intent of the FY25 TERP and is compliant with the program's Additional Guidance.

- **Impact and Relevance to Military Health:**

  ○ To what degree the proposed research project will have both short- and long-term impacts and the successful completion of the project will advance the research field and ultimately lead to new treatments/therapeutics, diagnostic assays, or prevention strategies to improve the quality of life for those that have been impacted by or are likely to encounter toxic substances.

  ○ To what degree the proposed research is responsive to the health care needs of Service Members, their Families, and/or Veterans that have been or could potentially be exposed to military-related toxic exposures.

  ○ To what extent the research findings could benefit the general population.

6.2.2. Peer Review Criteria

To determine technical merit, all applications will be individually evaluated according to the following **scored criteria**, of which **Research Strategy and Feasibility** and **Impact and Relevance to Military Health** are equally of most importance, with the remaining criteria of equal, but lesser importance:

- **Research Strategy and Feasibility**

  ○ How well the application describes the scientific rationale for the study including relevant preliminary data that support the rationale for the proposed study and a literature review that supports the development of the proposed project and provides the basis for the study questions and/or hypotheses.

  ○ Whether the hypothesis or objectives of the study are clearly stated and how well the detailed specific aims are described and aligned with the tasks in the SOW.

  ○ How well the experimental design, methods, analyses, and models, including the appropriate controls, are described; how well the approaches will meet the project's goals and milestones; and whether the project is feasible and can be completed within the proposed period of performance.

  ○ To what extent the data and documentation support a regulatory filing with a Regulatory Agency or the next stage of development, if applicable.

  ○ If applicable, how well the proposed correlative study complements the existing research efforts and provides additional relevant insight beyond the initial study design.

  ○ How thoroughly the application acknowledges potential research challenges and pitfalls and provides alternative methods and approaches.

  ○ Whether the strategy for considering sex as a biological variable is appropriate to the objectives of the study or whether the justification for a single sex study is sufficiently strong.

  ○ If applicable, to what degree the intellectual and material property plan is appropriate.

  ○ For studies involving hazardous agents, whether the application includes an appropriate plan for acquiring, using, and maintaining the hazardous agents.

Applicable to research involving cell line(s) and/or animals:

○ How well the choice of proposed cell line(s) and/or animal model is justified and relevant to human biology (including but not limited to routes of human exposures, exposure dose, outcomes [human symptoms, diseases/conditions] associated with exposures, and types of exposures potentially encountered).

○ If applicable, how well the animal study (or studies) is designed and controlled to achieve the objectives, including the choice of animal species, strain, and model, and the endpoints/outcome measures to be used.

○ If applicable, whether appropriate approaches are being undertaken to corroborate findings from animal studies to human data sources/populations.

Applicable to research involving human subjects, samples, and/or datasets:

○ Whether the study population, and the methods for recruitment of human subjects or the acquisition of samples/datasets are appropriate to accomplish the proposed work.

○ Whether there is sufficient evidence provided to support the availability of/feasibility of accessing the proposed study populations/samples/datasets and past successes in recruiting/acquiring similar study populations/samples/datasets.

○ If applicable, whether the strategy for the inclusion of women and minorities and distribution of proposed enrollment are appropriate for the proposed study. Studies utilizing human biospecimens or datasets that cannot be linked to a specific individual, ethnicity, or race (typically classified as exempt from IRB review) are exempt from this requirement.

○ If applicable, to what degree the distribution of the proposed enrollment or dataset on the basis of sex, race, and/or ethnicity is appropriate and is related to the scientific goals of the proposed research.

○ How well the application identifies any potential barriers to subject retention and/or sample/data accrual and provides mitigation plans for addressing unanticipated delays.

○ If applicable, whether studies including GW Veterans use both the CDC and Kansas case definitions and whether any additional case definitions of GWI are justified and well-defined for the study.

○ If applicable, to what extent the use of GWI CDEs was considered when developing the plans for the collection of clinical data and annotation of clinical samples.

- **Impact and Relevance to Military Health**

  ○ To what extent a successful outcome of the proposed research project will have an impact on military-related toxic exposure research and/or patient care and will advance at least one of the FY25 TERP Program Goals and at least one of the FY25 TERP Topic Areas.

  ○ To what extent a successful outcome of the proposed research project will reduce the burden (effects/outcomes, new exposures, etc.) of military-related toxic exposures for Service Members, their Families, Veterans, and/or the American public.

  ○ Whether the anticipated short-term outcome(s)/products (intellectual knowledge and/or tangible materiel) will make an important scientific advancement and improve the understanding, prevention/prediction, diagnosis, and/or treatment of military-related toxic exposures.

- o   Whether the anticipated long-term benefits will impact the field of study and/or the lives of relevant patient or community populations and whether the anticipated outcomes will benefit the clinic or the field.

- o   To what extent the proposed materiel or knowledge product represents an improvement to currently available prevention or treatments/interventions, diagnostic approaches, devices or clinical practice guidelines (if applicable).

- o   How well the proposed effort is responsive to the health care needs and quality of life of Service Members, their Families, and/or Veterans.

- o   Whether the application provides a description of how the knowledge, information, products, or technologies gained from the research could be implemented in a dual-use capacity to benefit civilian population and address military need (as appropriate).

- o   Whether the application describes any limitations to the impact of the proposed research, even if the study is successful.

- o   If applicable, to what extent the anticipated outcomes of the proposed study will make an impact in understanding health differences between sexes.

- **Statistical Plan and Data Analysis**

  - o   Whether the application provides a description of how the data will be handled and statistically analyzed.

  - o   How well the statistical model and data analysis plan are explained and, whether they are appropriate for the proposed study objectives.

  - o   Whether the application identifies rules for stopping data collection, criteria for inclusion and exclusion of data, and how outliers will be defined and handled.

  - o   If applicable, to what extent the statistical plan and sample size, including power analysis, are appropriate for the study objectives.

  - o   If applicable, whether the randomization and blinding procedures for the study are appropriate and discuss other measures taken to minimize the effects of subjective bias during animal treatment and assessment of results.

- **Personnel**

  - o   To what degree the research team's qualifications and experience/expertise and each individual's specific contributions, including how their appropriate experience is incorporated, address the research question and enable the success of the proposed project.

  - o   Whether the PI's record of accomplishment and their ability to lead the research team to accomplish the proposed research project is clearly stated and whether their previous experience most pertinent to this project is sufficient to achieve the project's goals.

  - o   Whether the levels of effort by the PI and other key personnel are appropriate to ensuring the success of the project.

In addition, the following criteria will also contribute to the overall evaluation of the application, but will not be individually scored and are therefore termed **unscored criteria**:

- **Data and Research Resources Sharing Plan**

  - o   Whether the data and research resources will be shared with the research community.

- o To what extent the plan for sharing data and resources is appropriate and reasonable. If applicable, whether the name of the repository(ies) where scientific data and resources arising from the project will be archived is provided.

- o Whether data and outcome dissemination activities, with particular focus on feeding back the data to affected communities and/or research participants, are described and appropriate.

- **Budget**

  - o Whether the budget is appropriate for the proposed research.

- **Environment**

  - o To what extent the scientific environment and level of institutional support is appropriate for the proposed research project.

  - o How well the research requirements are supported by the availability of and accessibility to facilities and resources.

- **Application Presentation**

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

6.2.3. Programmatic Review

To make funding recommendations and select the application(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 FY25 TERP, as evidenced by the following:

  - o Adherence to the intent of the award mechanism.

  - o Program portfolio composition and balance.

  - o Relative impact and relevance to military health.

6.3. Application Review and Selection Process

6.3.1. Pre-Application

Following the pre-application screening, PIs will be notified as to whether they are invited to submit full applications. The estimated date when PIs can expect to receive notification of an invitation to submit a full application is indicated in Section 1, Basic Information about the Funding Opportunity. No feedback (e.g., a critique of the pre-application's strengths and weaknesses) is provided at this stage. Because the invitation to submit a full application is based on the contents of the pre-application, investigators should not change the title or research objectives after the pre-application is submitted.

6.3.2. Full Application

All applications are evaluated by scientists, clinicians, and consumers in a two-tier review process. The first tier is **peer review**, the evaluation of applications against established criteria to determine technical merit, where each application is assessed for its own merit, independent

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of other applications. The second tier is **programmatic review**, a comparison-based process in which applications 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 from the first tier of review are not automatically recommended for funding. Funding recommendations depend on various factors as described in*** [***Section 6.2.3, Programmatic Review***](). Additional information about the two-tier process used by the CDMRP can be found on the [CDMRP website]().

Funding of applications received is contingent upon the availability of federal funds for this program, the number of applications received, the quality and merit of the applications 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.

6.4. Risk, Integrity, and Performance Information

Prior to making an assistance agreement 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 that is available in SAM.

An applicant 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, in addition to other information in the designated integrity and performance system, in making a judgment about the applicant'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.

In accordance with National Security Presidential Memorandum and all associated laws, all fundamental research funded by the DoD must be evaluated for affiliations with foreign entities. All applicant organizations must disclose foreign affiliations of all key personnel named on applications. Failure to disclose foreign affiliations of key personnel shall lead to withdrawal of recommendations to fund applications. Applicant organizations may be presented with an opportunity to mitigate identified risks, particularly those pertaining to influence from foreign entities specified in law. Implementation of mitigation discussions and utilization of the [DOD Component Decision Matrix]() must decrease risk of foreign influence in accordance with the above-mentioned laws and guidance prior to award.

7. Federal Award Notices

For each full application received, the organizational representative(s) and PI will receive email notification when the funding recommendations are posted to eBRAP, typically within 6 weeks after programmatic review. At this time, each PI will receive a peer review summary statement on the strengths and weaknesses of the application and an information paper describing the application receipt and review process for the TERP 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 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 Grants Officer 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 Grants Officer is the official authorizing document (i.e., assistance agreement).***

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 ***intragovernmental and intramural DOD organizations*** 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.

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 additional information about pre-award costs for Grants.gov submissions, refer to the General Application Instructions, Section I.D, Pre-Award Costs section; and for eBRAP submissions, refer to the General Application Instructions, Section 1.D, Pre-Award Costs section.

8. Post-Award Requirements

8.1. 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 program announcement.

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

Refer to the General Application 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.

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

Applications 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 OHARO, prior to implementation. This administrative review requirement is in addition to the local IACUC, IRB, or Ethics Committee (EC) review. Refer to the General Application Instructions, Appendix 6, for additional information.

8.2. Reporting

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 Performance Progress Report (RPPR).

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, using the template available on eBRAP, must be submitted with the final progress report..

PHS Inclusion Enrollment Reporting Requirement *(only required for clinical research studies)*: Enrollment reporting on the basis of sex, race, and/or ethnicity will be required with each annual and final progress report. The PHS Inclusion Enrollment Report is available on eBRAP.

Awards resulting from this program announcement 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 Application Instructions, Appendix 8, Section B).

8.3. Additional Requirements

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

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

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

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9. Other Information

9.1. Program Announcement and General Application Instructions Versions

Questions related to this program announcement should refer to the program name, the program announcement name, and the program announcement version code CD25_01d. The program announcement numeric version code will match the General Application Instructions version code CD25_01.

9.2. Administrative Actions

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

9.2.1. Rejection

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

- Preproposal Narrative is missing.

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

- Submission of an application for which a letter of invitation was not issued.

- Project Narrative is missing.

- Budget is missing.

9.2.2. Modification

- Pages exceeding the specified limits will be removed prior to review for all documents.

- Documents not requested will be removed.

9.2.3. Withdrawal

The following may result in administrative withdrawal of the full application:

- A member of the FY25 TERP Programmatic Panel is named as being involved in the development or execution of the research proposed or is found to have assisted in the pre-application or application processes.

- Applications that include names of personnel from either of the CDMRP peer or programmatic review companies for which conflicts cannot be adequately mitigated. For FY25, the identities of the peer review contractor and the programmatic review contractor may be found on the CDMRP website.

- Personnel from applicant 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 from extramural organizations, including non-DOD federal agencies, received through eBRAP.

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- Applications submitted by a federal government organization (including an intramural DOD organization) if: (a) the organization cannot accept and execute the entirety of the requested budget in FY25 funds; and/or (b) the federal government organization cannot coordinate the use of contractual, assistance, or other appropriate agreements to provide funds to collaborators.

- The application fails to conform to this program announcement description.

- Inclusion of URLs, with the exception of links in References Cited and Publications and/or Patents abstract sections.

- Application 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 invited application proposes a different research project than that described in the pre-application.

- Submission of the same research project to different funding opportunities within the same program and fiscal year.

- A clinical trial is proposed.

9.2.4. Withhold

Applications 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 Grants Officer for a determination of the final disposition of the application.

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Appendix 1. Full Application Submission Checklist

Full Application Components	Uploaded
SF424 Research & Related Application for Federal Assistance *(Grants.gov submissions only)*	☐
Summary (Tab 1) and Application Contacts (Tab 2) *(eBRAP submissions only)*	☐
Attachments	
Project Narrative – **Attachment 1, upload as "ProjectNarrative.pdf"**	☐
Supporting Documentation – **Attachment 2, upload as "Support.pdf"**	☐
Technical Abstract – **Attachment 3, upload as "TechAbs.pdf"**	☐
Lay Abstract – **Attachment 4, upload as "LayAbs.pdf"**	☐
Statement of Work – **Attachment 5, upload as "SOW.pdf"**	☐
Impact and Relevance to Military Health Statement – **Attachment 6, upload as "Impact.pdf"**	☐
Animal Research Plan **(if applicable) – Attachment 7, upload as "AnimResPlan.pdf"**	☐
Use of Hazard Chemical or Biological Agents **(if applicable) – Attachment 8, upload as "Hazardous.pdf"**	☐
Study Personnel – **Attachment 9, upload as "Personnel.pdf"**	☐
Representations *(Grants.gov submissions only)* – **Attachment 10, upload as "RequiredReps.pdf"**	☐
Suggested Intragovernmental/Intramural Budget Form *(if applicable)* – **Attachment 11, upload as "IGBudget.pdf"**	☐
Research & Related Personal Data	☐
Research & Related Senior/Key Person Profile (Expanded)	☐
Attach Biographical Sketch for PI and Senior/Key Persons ("Biosketch_LastName.pdf")	☐
Attach Current/Pending Support for PI and Senior/Key Persons ("Support_LastName.pdf")	☐
Budget **Include Budget Justification**	☐
Project/Performance Site Location(s) Form	☐
Research & Related Subaward Budget Attachment(s) Form *(if applicable)*	☐

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Appendix 2. TERP Definitions

The TERP uses the following definitions:

- **Fourth Generation Agents (FGA):** "Fourth generation agents, also known as Novichoks or A-series nerve agents, belong to a category of chemical warfare agents that are unique organophosphorus compounds. They are more persistent than other nerve agents and are at least as toxic as VX."

- **Gulf War (GW):** The 1990-1991 Persian Gulf War.

- **Gulf War Illness (GWI):**

  ○ **Case Definitions:** In 2014, the Institute of Medicine (IOM) (now called National Academy of Medicine) released a report, "Chronic Multisymptom Illness in Gulf War Veterans: Case Definitions Reexamined." In this report, the IOM recommended the use of both the CDC definition of GWI and the "Kansas" definition of GWI. Applicants are encouraged to review this report, as the use of these case definitions is required when proposing clinical research/clinical trials with GW Veterans. Additional information on GWI can also be found in the 2014 report of the Research Advisory Committee on Gulf War Veterans' Illnesses, "Gulf War Illness and the Health of Gulf War Veterans: Research Update and Recommendations, 2009-2013."

  ○ The former DOD CDMRP GWIRP assembled multiple resources that applicants may find helpful if proposing studies on GWI.

  ○ **Common Data Elements (CDEs) for GWI Clinical Research:** Through a collaboration among the NIH, CDC, VA, former DOD CDMRP GWIRP, and the GWI community, CDE recommendations were developed for GWI. Applicants proposing clinical research under the topic area of "Gulf War Illness and Its Treatment" are strongly encouraged to review and consider the CDEs when preparing applications. Information on the GWI CDEs can be found on the GWIRP website and in: Cohen DE, Sullivan KA, McNeil RB, et al. 2022. A common language for Gulf War Illness (GWI) research studies: GWI common data elements. *Life Sciences Journal* 290:119818. doi:10.1016/j.lfs.2021.119818.

- **Medical Countermeasures (MCMs):** Medicines and medical products that can be used to diagnose, prevent, or treat diseases/conditions/symptoms related to chemical, biological, radiological, or nuclear (CBRN) threats.

- **Military-Related Toxic Exposures:** Exposures to known or unknown, naturally occurring or manmade substances associated with deployed, garrison, or other military-linked environments that result in adverse health effects. For the purposes of this TERP program announcement, exposures solely focused on environmental extremes are not considered military-related toxic exposures.

- **New Approach Methodologies (NAMs):** "Technologies and approaches that can potentially provide the same hazard and risk assessment information without the use of animal testing."

- **Neurotoxin:** Synthetic or natural substances that damage, destroy, or impair the functioning of the nervous system.

- **Non-Traditional Agents (NTAs):** "Novel chemical threat agents or toxicants requiring adapted countermeasures."

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- **Roles of Medical Care:** "The characterization of health support for the distribution of medical resources and capabilities." For more information on the military roles of care refer to Chapter 2, "Roles of Medical Care (United States)," Emergency War Surgery, Fifth United States Edition, 2018, Borden Institute.

- **Toxicant:** "A poison that is made by humans or that is put into the environment by human activities."

- **Toxic Exposures:** Exposures to known and unknown naturally occurring or manmade, harmful substances that result in adverse health effects.

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Appendix 3. Resources for Data and/or Previously Collected Biospecimens

Boston Biorepository, Recruitment, and Integrated Network for GWI (BBRAIN)
Defense Health Agency (DHA) Data Sharing Agreements
Defense Manpower Data Center (DMDC)
Defense Medical Surveillance System (DMSS)
Defense Occupational and Environmental Health Readiness System (DOEHRS)
DOD Serum Repository (DODSR)
Gulf War Illness Clinical Trials and Interventions Consortium (GWICTIC)
Individual Longitudinal Exposure Record (ILER)
Massachusetts Veterans Epidemiology Research and Information Collaborative (MAVERIC)
Millennium Cohort Study
Million Veteran Program (MVP)
VA Environmental Health Registries
VA Gulf War Veterans' Illnesses Biorepository Brain Bank (GWVIB)
VA Gulf War Era Cohort and Biorepository (GWECB)

Appendix 4. Acronym List

ARRIVE	Animal Research: Reporting *In Vivo* Experiments
BBRAIN	Boston Biorepository, Recruitment, and Integrated Network for GWI
CDC	U.S. Centers for Disease Control and Prevention
CDE	Common Data Element
CDMRP	Congressionally Directed Medical Research Programs
CFR	Code of Federal Regulations
DHA	Defense Health Agency
DMDC	Defense Manpower Data Center
DMSS	Defense Medical Surveillance System
DOD	U.S. Department of Defense
DoDGARs	Department of Defense Grant and Agreement Regulations
DODSR	Department of Defense Serum Repository
DOEHRS	Defense Occupational and Environmental Health Readiness System
eBRAP	Electronic Biomedical Research Application Portal
EC	Ethics Committee
ET	Eastern Time
FAD	Funding Authorization Document
FGA	Fourth Generation Agent
FY	Fiscal Year
GW	Gulf War
GWECB	Gulf War Era Cohort and Biorepository
GWI	Gulf War Illness
GWICTIC	Gulf War Illness Clinical Trials and Interventions Consortium
GWIRP	Gulf War Illness Research Program
GWVIB	Gulf War Veterans' Illnesses Biorepository Brain Bank
IACUC	Institutional Animal Care and Use Committee
IIRA	Investigator-Initiated Research Award
ILER	Individual Longitudinal Exposure Record
IOM	Institute of Medicine
IRB	Institutional Review Board
M	Million
MAVERIC	Massachusetts Veterans Epidemiology Research and Information Collaborative
MCM	Medical Countermeasure
MIPR	Military Interdepartmental Purchase Request
MVP	Million Veteran Program
NAMs	New Approach Methodologies

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NIH	National Institutes of Health
NSF	U.S. National Science Foundation
NTA	Non-Traditional Agent
OHARO	Office of Human and Animal Research Oversight (previously Office of Research Protections)
PDF	Portable Document Format
PHS	Public Health Service
PI	Principal Investigator
ROC	Roles of Care; Role of Care
RPPR	Research Performance Progress Report
SAM	System for Award Management
SciENcv	Science Experts Network Curriculum Vitae
SF424	Standard Form 424 (Application for Federal Assistance, Research & Related)
SOW	Statement of Work
STEM	Science, Technology, Engineering, and/or Mathematics
TERP	Toxic Exposures Research Program
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