Program Announcement

for the

Defense Health Program
Department of Defense
Congressionally Directed Medical Research Programs

Peer Reviewed Cancer Research Program

Career Development Award

Funding Opportunity Number: W81XWH-14-PRCRP-CDA
Catalog of Federal Domestic Assistance Number: 12.420

SUBMISSION AND REVIEW DATES AND TIMES

- Pre-Application Deadline: 5:00 p.m. Eastern time (ET), June 10, 2014
- Invitation to Submit an Application: July 2014
- Application Submission Deadline: 11:59 p.m. ET, September 17, 2014
- End of Application Verification Period: 5:00 p.m. ET, September 22, 2014
- Peer Review: November 2014
- Programmatic Review: January 2015

Change for Fiscal Year 2014: The CDMRP eReceipt System has been replaced with the Electronic Biomedical Research Application Portal (eBRAP). Principal Investigators and organizational representatives should register in eBRAP as soon as possible. All pre-applications must be submitted through eBRAP. In addition, applications submitted through Grants.gov will now be available for viewing, modification, and verification in eBRAP prior to the end of the application verification period.

This Program Announcement/Funding Opportunity is one of two documents with instructions to prepare and submit an application for this funding opportunity. The second document, the General Application Instructions, is available for downloading from Grants.gov.
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I. FUNDING OPPORTUNITY DESCRIPTION

A. Program Description

Applications to the Fiscal Year 2014 (FY14) Peer Reviewed Cancer Research Program (PRCRP) are being solicited for the Assistant Secretary of Defense for Health Affairs, Defense Health Program (DHP), by the U.S. Army Medical Research Acquisitions Activity (USAMRAA). The PRCRP was initiated in 2009 to provide support for cancer research of exceptional scientific merit not addressed by the breast cancer, prostate cancer, lung cancer, and ovarian cancer research programs executed and managed by the Office of the Congressionally Directed Medical Research Programs (CDMRP). Appropriations for the PRCRP from FY09 through FY13 totaled $74.8 million (M). The FY14 appropriation is $25M.

The goal of the PRCRP is to improve quality of life by decreasing the impact of cancer on active duty service members, their families, and the American public. As such, the PRCRP will foster the next generation of cancer research by providing new opportunities to successfully pursue high-impact research for the prevention, detection, and treatment of cancer.

B. FY14 PRCRP Congressionally Directed Topic Areas

To be considered for funding, applications for the PRCRP Career Development Award must address at least one of the Topic Areas as directed by Congress. Research applications in the areas of breast, prostate, lung (excluding mesothelioma), or ovarian cancer will not be accepted. The FY14 PRCRP Topic Areas are listed below.

- Blood cancers
- Cancers related to radiation exposure (New for FY14)
- Colorectal cancer
- Genetic cancer research
- Kidney cancer
- *Listeria* vaccine for cancer
- Melanoma and other skin cancers
- Mesothelioma
- Myeloproliferative disorders (New for FY14)
- Neuroblastoma
- Pancreatic cancer
- Pediatric brain tumors

**New Topic Areas:** Cancers related to radiation exposure and Myeloproliferative disorders are new for FY14 and are described below:
Cancers related to radiation exposure: Investigations into cancers related to radiation exposure should include research directed to improve the understanding of elevated cancer risk among military service members exposed to increased levels of ionizing radiation including:

- Modulation by host factors
- Occupational and environmental exposure
- Assessment of risk among active duty and Veterans
- Routes of exposure
- Dose and risk estimates

Myeloproliferative disorders: Studies within the scope of myeloproliferative disorders as defined by the National Cancer Institute (http://www.cancer.gov/cancertopics/types/myeloproliferative) will be accepted.

C. FY14 PRCRP Military Relevance Focus Areas (Revised for FY14)

In addition to addressing at least one of the required Congressionally Directed Topic Areas in Section I.B., applications for the PRCRP Career Development Award are strongly encouraged to address at least one of the FY14 PRCRP Military Relevance Focus Areas. Military relevance in medical research focuses on critical health issues of the military experienced by active duty service members, their families, and other military beneficiaries. To address the cancer health needs of both deployed and non-deployed personnel, their dependents, retirees, and Veterans, the FY14 PRCRP seeks to support studies that are responsive to the Military Relevance Focus Areas listed below:

- Assessment of militarily-relevant risk factors (e.g., ionizing radiation, chemical and environmental carcinogens) associated with the susceptibility, early detection, progression, and treatment of cancer
- Examination of cancer diagnosis and prognosis effects on the psychosocial well-being of military and their beneficiaries
- Gaps in cancer prevention, diagnosis, early detection, or treatment that may affect the general population but have a particular profound impact on military health

Applications that address exposures, conditions, or circumstances that are unique to the military, or disproportionately represented in a military beneficiary population, are the highest priority, though any applications that address the above focus areas will be considered.

Investigators are strongly encouraged to collaborate, integrate, and/or align their research projects with Department of Defense (DoD) and/or Department of Veterans Affairs (VA) research laboratories and programs.

D. Award Information

The PRCRP Career Development Award supports independent, early-career investigators to conduct impactful research with the mentorship of an experienced cancer researcher (i.e., the Designated Mentor) as an opportunity to obtain the funding, guidance, and experience necessary for productive, independent careers at the forefront of cancer research. This award supports
impactful research projects with an emphasis on discovery. Under this award mechanism, the early-career investigator is considered the Principal Investigator (PI), and the application should focus on the PI’s research and career development. It should be clear that the proposed research is intellectually designed by the PI and not a product of the Designated Mentor. **Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated.**

Key elements of the award are as follows:

- **Principal Investigator:** The PI must be an independent, early-career research- or physician-scientist within 7 years of his/her first faculty appointment (or equivalent). The PI’s record of accomplishments and the proposed research will be evaluated regarding his/her potential for contributing to the FY14 PRCRP Topic Area(s). Because career development is the focus of this award, the PI’s organization must demonstrate a commitment to the PI through confirmation of laboratory space and a minimum of 30% protected time for the proposed research, though more protected time is highly desirable.

- **Designated Mentor:** The Designated Mentor must be an experienced cancer researcher as demonstrated by a strong record of funding and publications. In addition, the Designated Mentor must demonstrate a commitment to advancing the PI’s career in cancer research. The Designated Mentor’s record of accomplishments should include documentation on significant contribution to the relevant FY14 PRCRP Topic Area(s) and in at least one of the FY14 PRCRP Military Relevance Focus Areas. The Designated Mentor must not have a major research focus in breast, prostate, lung (excluding mesothelioma), or ovarian cancer.

- **Career Development Plan:** A career development plan is required and should be prepared with appropriate guidance from the Designated Mentor. The application should include a clearly articulated strategy for acquiring the necessary skills, competence, and expertise to advance an independent career at the forefront of cancer research in at least one of the FY14 PRCRP Topic Areas.

- **PRCRP Topic Areas:** The proposed research must address at least one of the FY14 PRCRP Topic Areas.

- **Relevance to Military Beneficiaries:** The proposed research should be relevant to active duty service members, their families, and other military beneficiaries. Military relevance highlights the need to address exposures, conditions, or circumstances that are unique to the military or disproportionately represented within the military beneficiary population. Critical to the military health system is the expansion of knowledge in cancer research, patient care, and treatment options. Military relevance should be articulated with respect to overall military health system and the mission of the DHP and the FY14 PRCRP. For more information, please review the following websites: Military Health System ([http://www.health.mil](http://www.health.mil)), the PRCRP ([http://cdmrp.army.mil/prcrp/default](http://cdmrp.army.mil/prcrp/default)), and PRCRP Report to Congress ([http://cdmrp.army.mil/prcrp/reports/reports](http://cdmrp.army.mil/prcrp/reports/reports)).

- **Impact:** The application must articulate the potential impact the proposed work will have on cancer research and/or patient care. Impactful research will, if successful,
accelerate the movement of promising ideas in cancer research into clinical applications.

**Use of Military and VA Populations and/or Resources:** If the proposed research plan involves access to active duty military and/or VA patient populations or resources, the Principal Investigator (PI) is responsible for establishing such access. If possible, access to target active duty military and/or VA patient population(s)/resource(s) should be confirmed at the time of application submission by inclusion of a letter of support, signed by the lowest ranking person with approval authority, for studies involving active duty military service members, Veterans, military and/or VA controlled study materials, and military and/or VA databases. If access cannot be confirmed at the time of application submission, the Government reserves the right to withhold or revoke funding until the PI has demonstrated support for and access to the relevant population(s) and/or resource(s). Note that access to a Veteran population for clinical studies may only be obtained by either collaboration with a VA investigator where the VA investigator has a substantial role in the research, or by advertising to the general public.

**Use of Human Anatomical Substances, Human Subjects, or Human Cadavers:** All DoD-funded research involving new and ongoing research with human anatomical substances, human subjects, or human cadavers must be reviewed and approved by the U.S. Army Medical Research and Materiel Command (USAMRMC) Office of Research Protections (ORP), Human Research Protection Office (HRPO), in addition to the local Institutional Review Board (IRB) of record. Local IRB approval at the time of submission is **not** required. The HRPO is mandated to comply with specific laws and requirements governing all research involving human anatomical substances, human subjects, or human cadavers that is supported by the DoD. These laws and requirements will necessitate information in addition to that supplied to the IRB. Allow a minimum of 2 to 3 months for HRPO regulatory review and approval processes. Refer to the General Application Instructions, Appendix 6, for additional information.

**Clinical trials are not allowed.** A clinical trial is defined as a prospective accrual of patients where an intervention (e.g., device, drug, biologic, surgical procedure, rehabilitative modality, behavioral intervention, or other) is tested on a human subject for a measurable outcome with respect to exploratory information, safety, effectiveness, and/or efficacy. This outcome represents a direct effect on the subject of that intervention or interaction. The FY14 PRCRP is not offering an award mechanism that will support clinical trials; PIs seeking funding for a clinical trial are encouraged to investigate other funding agencies for support. Refer to the General Application Instructions, Appendix 6, for additional information about studies involving human subjects, human subjects’ data, or human anatomical substances. For more information, a Human Subject Resource Document is provided at [https://ebrap.org/eBRAP/public/Program](https://ebrap.org/eBRAP/public/Program)

*The Congressionally Directed Medical Research Programs (CDMRP) intends that data and research resources generated under awards funded by this Program Announcement/Funding Opportunity be made available to the research community (which includes both scientific and consumer advocacy communities) and to the public at large. For additional guidance, refer to the General Application Instructions, Appendix 4, Section L.*
E. Eligibility Information

- **Principal Investigator**
  - The PI must be an independent, early-career investigator within 7 years of his/her *first* faculty appointment (or equivalent) by the time of the application submission deadline. Lapses in research time or appointments as denoted in the biographical sketch may be articulated in the application.
  - Institutional commitment to the PI’s independent career should be demonstrated, including a confirmation of the laboratory space, and at least 30% of protected time for the proposed research supported by this award.

- **Designated Mentor**
  - The Designated Mentor must hold a position at or above the level of an Associate Professor (or equivalent).
  - The Designated Mentor must have a proven publication and funding record in at least one of the FY14 PRCRP Topic Areas and in at least one of the FY14 PRCRP Military Relevance Focus Areas.
  - The Designated Mentor must not have a major research focus in breast, prostate, lung (excluding mesothelioma), or ovarian cancer.
  - *The PI and the Designated Mentor do not need to be located at the same organization.*

- Cost sharing/matching is not an eligibility requirement.
- Eligible investigators must apply through an organization. Organizations eligible to apply include national, international, for-profit, non-profit, public, and private organizations.
- Refer to the General Application Instructions, Appendix 1, for general eligibility information.

F. Funding

- The maximum period of performance is 3 years.
- The maximum allowable direct costs for the entire period of performance are **$360,000** plus indirect costs.
- All direct and indirect costs of any subaward (subgrant or subcontract) must be included in the total 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.
- Regardless of the period of performance proposed, the applicant may not exceed the maximum allowable direct costs. Indirect costs shall be proposed in accordance with the organization’s negotiated rate agreement.
Refer to the General Application Instructions, Section II.C.4., for budget regulations and instructions for the Research & Related Budget.  *For all federal agencies or organizations collaborating with federal agencies, budget restrictions apply as are noted in Section II.C.4. of the General Application Instructions.*

For this award mechanism, direct costs:

May be requested for (not all-inclusive):

- Salary
- Research supplies
- Clinical research costs
- Travel between collaborating organizations
- Travel costs of up to $1,800 per year to attend scientific/technical meetings

Shall not be requested for:

- Clinical trial costs

Intramural (DoD), other federal agency, and extramural investigators are encouraged to apply to this Program Announcement/Funding Opportunity. An intramural investigator is defined as a DoD military or civilian employee working within a DoD laboratory or military treatment facility, or working in a DoD activity embedded within a civilian medical center. Intramural applicants and collaborators are reminded to coordinate receipt and commitment of funds through their respective resource managers. It is permissible for an intramural investigator to be named as a collaborator on an application submitted by an extramural investigator. *In such cases, the extramural investigator must include a letter from the intramural collaborator’s Commander or Commanding Officer that authorizes the involvement of the intramural collaborator.*

As required of all applicants to this Program Announcement/Funding Opportunity, if PIs from federal agencies submit applications, they must submit through Grants.gov. Therefore, federal applicants must be familiar with Grants.gov requirements, including the need for an active System for Award Management (SAM) registration and a Data Universal Numbering System (DUNS) number. Refer to Appendix 3 of the General Application Instructions for further information regarding Grants.gov requirements.

Awards to extramural organizations will consist solely of assistance agreements (Cooperative Agreements and Grants). Awards to intramural agencies and other federal agencies will be executed through the Military Interdepartmental Purchase Request (MIPR) or Funding Authorization Document (FAD) process. Direct transfer of funds from the recipient to a federal agency is not allowed except under very limited circumstances. Refer to the General Application Instructions, Section II.C.4. Research & Related Budget, for additional information on budget considerations for applications involving federal agencies.

*The CDMRP expects to allot approximately $11.52M of the $25M FY14 PRCRP appropriation to fund approximately 20 Career Development Award applications, depending on the quality*
and number of applications received. Funding of applications received in response to this Program Announcement/Funding Opportunity is contingent upon the availability of federal funds for this program.

II. SUBMISSION INFORMATION

Submission is a two-step process requiring both (1) pre-application submission through the electronic Biomedical Research Application Portal (eBRAP) (https://eBRAP.org/) and (2) application submission through Grants.gov (http://www.grants.gov/).

New for FY14: The CDMRP has replaced its eReceipt System with eBRAP. Submission remains a two-step process requiring both pre-application and application submission.

PIs must be registered in eBRAP in order to submit a pre-application and receive notification of the status of a pre-application or application. A key feature of eBRAP is that an organization’s representatives and PIs are able to view and modify the Grants.gov application submissions associated with them, but only if the organization, Business Officials, and PIs are registered and affiliated to the organization in eBRAP (see eBRAP User Guide at https://ebrap.org/eBRAP/public/UserGuide.pdf). Upon completion of an organization’s registration in eBRAP and approval by the CDMRP Help Desk, the organization name will be displayed in eBRAP to assist the organization’s business officials and PIs as they register.

Note: Submission of either the pre-application to eBRAP or application to Grants.gov does not require registering an organization and affiliating its Business Officials and PIs in eBRAP; however, the ability to view and modify the Grants.gov application in eBRAP is contingent upon the registration and affiliation. Application viewing, modification, and verification in eBRAP is strongly recommended, but not required. The Project Narrative and Budget cannot be changed after the application submission deadline. Any other application component cannot be changed after the end of the application verification period. If verification is not completed by the end of the application verification period, the application will be reviewed as submitted through Grants.gov, provided there is no cause for administrative rejection of the application (see Section IV.A., Rejection).

Submission of applications that are essentially identical or 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.

A. Where to Obtain the Application Package

To obtain the complete application package, including all required forms, perform a Grants.gov (http://www.grants.gov/) basic search using the Funding Opportunity Number: W81XWH-14-PRCRP-CDA.

B. Pre-Application Submission and Content Form

All pre-application components must be submitted by the PI through eBRAP (https://eBRAP.org/). Because the invitation to submit an 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.

The PI, Designated Mentors, and organization(s) identified in the pre-application should be the
same as those intended for the subsequent application submission. If any changes are necessary
after submission of the pre-application, the PI must contact the CDMRP Help Desk at
help@eBRAP.org or 301-682-5507.

A change in organization after submission of the pre-application will be allowed only at the
discretion of the US Army Medical Research Acquisition Activity (USAMRAA) Contracting/
Grants Officer.

Changes in PI or Designated Mentor are not allowed, except under extenuating circumstances
that will be evaluated on a case-by-case basis and at the discretion of the Grants Officer.

The pre-application consists of the following components, which are organized in eBRAP by
separate tabs (refer to the General Application Instructions, Section II.B., for additional
information on pre-application submission):

- **Application Information** – Tab 1
- **Application Contacts** – Tab 2
  - It is recommended that PIs identify an Alternate Submitter in the event that
    assistance with pre-application submission is needed.
- **Collaborators and Conflicts of Interest (COI)** – Tab 3
  FY14 PRCRP Integration Panel (IP) members should not be involved in any pre-
application or application. For questions related to IP members and pre-applications or
applications, refer to Section IV.C., Withdrawal, or contact the CDMRP Help Desk at
help@eBRAP.org or 301-682-5507.
- **Required Files** – Tab 4

**Notes:** Upload document(s) as individual PDF files unless otherwise noted. eBRAP
will not allow a file to be uploaded if the number of pages exceeds the limit specified
below.

**Preproposal Narrative (three-page limit):** The Preproposal Narrative page limit
applies to text and non-text elements (e.g., figures, tables, graphs, photographs,
diagrams, chemical structures, drawings, etc.) used to describe the project. Inclusion of
URLs 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:

- **Principal Investigator:** Describe the PI’s potential for a career at the forefront of
cancer research in at least one of the FY14 PRCRP Topic Areas. Describe the PI’s
career goals and how they are consistent with a commitment to pursue a career in
cancer research.
○ **Designated Mentor:** Describe how the Designated Mentor has demonstrated a record of accomplishments in the relevant FY14 PRCRP Topic Area(s) and in at least one of the FY14 PRCRP Military Relevance Focus Areas, such as a track record of publications, patents, and/or funding history.

○ **Career Development:** Briefly describe the PI’s Career Development Plan and how it will contribute to the overall professional development of the PI as a productive, independent researcher at the forefront of cancer research in the relevant FY14 PRCRP Topic Area(s). Detail any unique features of the training program and environment in cancer research.

○ **Research Idea:** State the ideas and reasoning on which the proposed work is based and how the application addresses at least one of the FY14 PRCRP Topic Areas. Concisely state the project’s objective and specific aims.

○ **Military Relevance:** Describe how the proposed project addresses exposures, conditions, or circumstances that are unique to the military or disproportionately represented within the military beneficiary population.

○ **Impact:** Briefly describe the potential impact of the proposed project on cancer research and/or patient care.

**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:

○ 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, title of reference, source of reference, 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.

○ Key Personnel Previous/Current/Pending Support (including Designated Mentor’s).

- **Submit Pre-Application – Tab 5**
  This tab must be completed for the pre-application to be accepted and processed.

**Pre-Application Screening**

- **Pre-Application Screening Criteria**
  To determine the technical merits of the pre-application and the relevance to the mission of the DHP and the PRCRP, pre-applications will be screened by the PRCRP IP based on the following criteria:

  ○ **Principal Investigator:** Whether the PI is eligible and demonstrates the potential for a career at the forefront of cancer research. To what degree the PI’s career goals are consistent with a commitment in advancing his/her independent career in cancer research in at least one of the FY14 PRCRP Topic Areas.
o **Designated Mentor:** How strong the Designated Mentor’s record of accomplishment is in the relevant FY14 PRCRP Topic Area(s) and in at least one of the FY14 PRCRP Military Relevance Focus Areas. The Designated Mentor must not have a major research focus in breast, prostate, lung (excluding mesothelioma), or ovarian cancer.

o **Career Development Plan:** How well the career development plan will contribute to the overall professional development of the PI. To what degree the Designated Mentor will contribute to coaching and facilitating the PI’s career development.

o **Military Relevance:** To what extent the proposed research will answer the unaddressed needs of the military health system by studying exposures, conditions, or circumstances unique to the military or disproportionately represented within the military beneficiary population.

o **Research Idea:** How well the rationale and specific aims support the project’s objectives. Whether the proposed research addresses at least one of the FY14 PRCRP Topic Areas.

o **Impact:** To what degree the proposed project has the potential to significantly improve the current state of cancer research and/or patient care.

- **Notification of Pre-Application Screening Results**

  Following the pre-application screening, PIs will be notified as to whether or not they are invited to submit applications; however, they will not receive feedback (e.g., a critique of strengths and weaknesses) on their pre-application. The estimated timeframe for notification of invitation to submit an application is indicated on the title page of this Program Announcement/Funding Opportunity.

C. **Application Submission Content and Forms**

*Applications will not be accepted unless the PI has received notification of invitation.*

Each application submission must include the completed application package of forms and attachments provided in Grants.gov for this Program Announcement/Funding Opportunity. The application package is submitted by the Authorized Organizational Representative through the Grants.gov portal (http://www.grants.gov/).

**New for FY14:** *Applications submitted through and validated by Grants.gov will be retrieved and processed by eBRAP to allow for review, modification, and verification.* The PI and organizational representatives will receive an email request from eBRAP to review, modify, and verify the application submitted to Grants.gov. During this verification period, the PI may upload missing files (excluding those listed in Section IV.A., Rejection), replace files, and re-categorize files. These modifications must be completed by the end of the verification period.

**Note:** *Changes to either the Project Narrative or Budget are not allowed in eBRAP.* If such changes are required, the entire application package must be submitted through Grants.gov as a “Changed/Corrected Application” with the Previous Grants.gov Tracking ID prior to the application submission deadline (which occurs earlier than the end of the application verification period).
Grants.gov application package components: For the Career Development Award, the Grants.gov application package includes the following components (refer to the General Application Instructions, Section II.C., for additional information on application submission):

1. **SF 424 (R&R) Application for Federal Assistance Form:** Refer to the General Application Instructions, Section II.C., for detailed information.

2. **Attachments Form**

   - **Attachment 1: Project Narrative (eight-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, etc.) used to describe the project. Inclusion of URLs that provide additional information to expand the Project Narrative and could confer an unfair competitive advantage is prohibited and will result in administrative withdrawal of the application.

   Describe the proposed project in detail using the outline below.

   - **Principal Investigator:** State how the PI is eligible. Describe the PI’s potential for a career at the forefront of cancer research in at least one of the FY14 PRCRP Topic Areas, including qualifications and achievements that make the PI an ideal candidate for this award. Describe the PI’s career goals as a cancer researcher and how the proposed training will advance his/her career. Discuss the appropriateness of the level of effort of the PI for successful conduct of the proposed research.

   - **Designated Mentor:** Describe the qualifications of the Designated Mentor including record of research accomplishments, publications, patents, and funding in the relevant FY14 PRCRP Topic Area(s), and in at least one of the FY14 PRCRP Military Relevance Focus Areas. Describe the Designated Mentor’s track record for training early-career investigators. If the Designated Mentor and PI are located at different organizations, describe how appropriate direction and oversight will be accomplished.

   - **Research:**
     - **Background:** Present the ideas and reasoning behind the proposed research; include relevant literature citations and preliminary data that led to the development of the proposed study. Any preliminary data provided should be from the laboratory of the PI, Designated Mentor, or member(s) of the collaborating team. Preliminary data are not required; however, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated.

     - **Hypothesis or Objective:** State the hypothesis to be tested or the objective to be reached.

     - **Specific Aims:** State the project’s specific aims. If this application is part of a larger study, present only tasks that this award would fund.
Strategy: Describe the experimental design, methods, and analyses, including appropriate controls, in sufficient detail for analysis. Address potential problem areas and present alternative methods and approaches. If human subjects or human biological samples will be used, include a detailed plan for the recruitment of subjects or the acquisition of samples. *This award cannot be used to conduct clinical trials.*

Data and Statistical Analysis Plan: Describe how data will be collected and analyzed in a manner that is consistent with the study objectives. If applicable, include a complete power analysis to demonstrate that the sample size is appropriate to meet the objectives of the study.

**Attachment 2: Supporting Documentation.** Start each document on a new page. Combine and upload as a single file named “Support.pdf.” If documents are scanned to pdf, the lowest resolution (100 to 150 dpi) should be used. *There are no page limits for any of these components unless otherwise noted. Include only those components described below; inclusion of items not requested may result in the removal of those items or administrative withdrawal of the application.*

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

○ 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 or not 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 Patent Abstracts (five-document limit): Include relevant publication URLs and/or patent abstracts. If publications are not publicly available, then a copy/copies of the published manuscript(s) must be included in Attachment 2. Extra items will not be reviewed.

○ Letters of Organizational Support: Provide a letter (or letters, if applicable), signed by the Department Chair or appropriate organization official, confirming the laboratory space, equipment, support for 30% or more protected time for the PI, and other resources available for the project.

○ Letters of Collaboration (if applicable): Provide a signed letter from each collaborating individual (other than the Designated Mentor) or organization that will demonstrate that the PI has the support or resources necessary for the proposed work.
○ Intellectual Property
  - Background and Proprietary Information: All software and data first produced under the award are subject to a federal purpose license in accordance with applicable DoD Grant and Agreement Regulations (DoDGAR) requirements. Provide a list of all background intellectual property to be used in the project or provide a statement that none will be used. If applicable, state and identify the proprietary information that will be provided to the Government and indicate whether the applicant will require a waiver of the federal purpose license.
  - Intellectual and Material Property Plan (if applicable): Provide a plan for resolving intellectual and material property issues among participating organizations.

○ Data and Research Resources Sharing Plan: Describe how data and resources generated during the performance of the project will be shared with the research community. Refer to the General Application Instructions, Appendix 4, Section L for more information about the CDMRP expectations for making data and research resources publicly available.

- **Attachment 3: Technical Abstract (one-page limit):** Upload as “TechAbs.pdf.”

  Technical abstracts should be written using the outline below.

  ○ **Personnel:** Describe the PI’s potential for a career at the forefront of cancer research in at least one of the FY14 PRCRP Topic Areas. Describe the Designated Mentor’s background and experience in the relevant FY14 PRCRP Topic Area(s) and in at least one of the FY14 PRCRP Military Relevance Focus Areas.

  ○ **Career Development:** Describe how the award will provide the PI with the opportunity to advance his/her career at the forefront of cancer research.

  ○ **Research**
    - Background: Present the ideas and reasoning behind the proposed project.
    - Objective/Hypothesis: State the hypotheses/study questions and overall objective(s) to be reached.
    - Specific Aims: State the specific aims of this study.
    - Study Design: Briefly describe the study design including appropriate controls.
    - Impact: Summarize the proposed project’s potential impact on advancing the current state of cancer research and/or patient care.
    - Military Relevance: Briefly describe how the proposed research is relevant to active duty service members, their families, and other military beneficiaries. Clearly articulate the project’s relevance and potential impact on advancing cancer research and/or patient care for the military health system.
• **Attachment 4: Lay Abstract (one-page limit):** Upload as “LayAbs.pdf.” Lay abstracts should be written using the outline below. Do not duplicate the technical abstract. Avoid overuse of acronyms and abbreviations, if possible. Describe the proposed research project by including the following elements in plain language.
  
  ○ Describe the scientific objective and rationale for the proposed project in a manner that will be *readily understood by readers without a background in science or medicine*.
  
  ○ Describe the PI’s career goals in cancer research.
    - How will the award advance the PI’s career in at least one of the FY14 PRCRP Topic Areas?
    - How does the research and career development plan support the PI in attaining these goals?
  
  ○ Describe the ultimate applicability of the research.
    - What types of patients will it help, and how will it help them?
    - What are the potential clinical applications, benefits, and risks? If the research is too basic for clinical applicability, describe the interim outcomes expected and their applicability to the field.
    - What is the projected time it may take to achieve a clinically relevant outcome?
    - What are the likely contributions of this study to advancing the field of cancer research and/or patient care?
  
  ○ Describe how the proposed research will benefit active duty service members, their families, and other military beneficiaries.

• **Attachment 5: Statement of Work (SOW) (three-page limit):** Upload as “SOW.pdf.” Refer to the General Application Instructions, Section II.C.2., for detailed guidance on creating the SOW.

  The suggested SOW format and examples specific to different types of research projects are available on the eBRAP “Program Announcement and Forms” web page ([https://ebrap.org/eBRAP/public/Program.htm](https://ebrap.org/eBRAP/public/Program.htm)). For the Career Development Award mechanism, use the SOW format example titled “SOW (Statement of Work) Generic Format.” The SOW must be in PDF format prior to attaching.

• **Attachment 6: Relevance to Military Beneficiaries Statement (one-page limit):** Upload as “MilBen.pdf.”

  ○ State the FY14 PRCRP Military Relevance Focus Area(s) addressed in the study and articulate how the proposed research will advance the knowledge and understanding of cancer, patient care, and/or treatment options in the military health system, or
Describe how the proposed research addresses exposures, conditions, or circumstances that are unique to the military or disproportionately represented within the military beneficiary population.

Describe the anticipated short- and/or long-term outcomes of the proposed research and their potential impact on the basic health, welfare, and/or psychosocial wellness of active duty service members, their families, and other military beneficiaries.

Describe how the study design will replicate field conditions, if appropriate. If active duty military, military families, or U.S. Veteran population(s) will be used in the proposed research project, describe the population(s), the appropriateness of the population(s) for the proposed study, and the feasibility of using the population.

If a non-military population will be used for the proposed research project, explain how the population simulates the targeted population (i.e., Armed Forces, their family members, and/or the U.S. Veteran population).

- **Attachment 7: Impact Statement (one-page limit):** Upload as “Impact.pdf.”

State explicitly how the proposed work addresses a critical problem in at least one of the FY14 PRCRP Topic Areas. Describe the pathway to making an impact on cancer research and/or patient care and explain how the PI’s specific research goals, if achieved, would fit into that pathway.

- **Attachment 8: Career Development Plan (one-page limit):** Upload as “CareerDev.pdf.”

  - Clearly describe and outline the individualized career development plan that focuses on at least one of the FY14 PRCRP Topic Areas.
  - Highlight the unique features of this career development plan as it pertains specifically to cancer research in the relevant FY14 PRCRP Topic Area(s).
  - Indicate specifically how the individualized career development plan will provide the PI with an opportunity to advance his/her independent career in cancer research.
  - Describe how the career development plan is supported by the research environment and mentorship, including a description of ongoing cancer research at the institution in the relevant FY14 PRCRP Topic Area(s). Include information on collaborations with other investigators.

- **Attachment 9: PI’s Eligibility Statement (one-page limit):** Upload as “PIEligibility.pdf.” Use the Eligibility Statement template (available for download on the Full Announcement page in Grants.gov) signed by the Department Chair, Dean, or equivalent official to verify that the eligibility requirements will be met.

- **Attachment 10: Letter from Designated Mentor (two-page limit):** Upload as “MentorLetter.pdf.” Provide a signed letter from the Designated Mentor indicating
recommendation, support, and planned interaction with the PI for the proposed work. Include information on the Designated Mentor’s record of preparing early-career investigators for careers in cancer research.

- **Attachment 11: Letters Confirming Access to Target Military or VA Patient Population(s) or Resources (e.g., Human/Animal Anatomical Substances, Databases), if applicable (one-page limit per letter):** Upload as “Access.pdf.”

If the proposed research plan involves access to active duty military and/or VA patient population(s) or resource(s), include a letter of support, signed by the lowest ranking person with approval authority, confirming such access. If access cannot be confirmed at the time of application submission, the Government reserves the right to withhold or revoke funding until the PI has demonstrated support for and access to the relevant population(s) and/or resource(s).

- **Attachment 12: 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 Centers for Disease Control and Prevention 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 if 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.

3. **Research & Related Senior/Key Person Profile (Expanded):** Refer to the General Application Instructions, Section II.C.3., for detailed information. Note: Some of the items in this attachment may be made available for programmatic review.

  - PI Biographical Sketch (four-page limit): Upload as “Biosketch_LastName.pdf.”
  - PI Previous/Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”
  - Key Personnel Biographical Sketches (four-page limit each): Upload as “Biosketch_LastName.pdf.”
    - Include Designated Mentor’s biographical sketch.
  - Key Personnel Previous/Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”
    - Include Designated Mentor’s previous/current/pending support.

4. **Research & Related Budget:** Refer to the General Application Instructions, Section II.C.4., for detailed information.

  - Budget Justification (no page limit): Upload as “BudgetJustification.pdf.”
5. **Project/Performance Site Location(s) Form**: Refer to the General Application Instructions, Section II.C.5., for detailed information.

6. **R & R Subaward Budget Attachment(s) Form (if applicable)**: Refer to the General Application Instructions, Section II.C.6., for detailed information.

D. **Verification of Grants.gov Application in eBRAP**

For FY14, a new process has been initiated whereby organizational representatives and PIs can view their applications as submitted through Grants.gov and prior to peer review of the application. This will enable applicants to make modifications prior to scientific and programmatic evaluation of applications, provided the modifications are made by either the end of the application verification period or, for changes to the Project Narrative or Budget, by the application submission deadline.

After application submission to Grants.gov, eBRAP will retrieve and validate the application submission. eBRAP will notify the organizational representatives and PI via email and instruct them to log into eBRAP to review, modify, and verify the application. Files that fail eBRAP validation will be noted in both the email and in the Full Application Files tab. eBRAP does not validate the accuracy or completeness of content in the files. PIs are strongly encouraged to review all application components. If either the Project Narrative or the Budget fails eBRAP validation, an updated Grants.gov application package must be submitted via Grants.gov prior to the application submission deadline, which occurs earlier than the end of the application verification period. The Project Narrative and Budget cannot be changed after the application submission deadline. Any other application component cannot be changed after the end of the application verification period.

E. **Submission Dates and Times**

All submission dates and times are indicated on the title page of this Program Announcement/Funding Opportunity. Pre-application and application submissions are required. Failure to meet either of these deadlines will result in application rejection.

F. **Other Submission Requirements**

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

All applications must be submitted through Grants.gov. Applicant organizations and all subrecipient organizations must have a Data Universal Numbering System (DUNS) number to submit applications to Grants.gov. The applicant organization must also be registered in the Entity Management functional area of the System for Award Management (SAM) with an “Active” status to submit applications through the Grants.gov portal. Refer to the General Application Instructions, Appendix 3, for information on Grants.gov requirements.
III. APPLICATION REVIEW INFORMATION

A. Application Review and Selection Process

All applicants are evaluated by scientists, clinicians, and consumer advocates using a two-tier review process. The first tier is peer review of applications against established criteria for determining technical merit. The second tier is a programmatic review that makes recommendations for funding to the Office of the Assistant Secretary of Defense for Health for Health Affairs, based on (a) technical merit and (b) the relevance to the mission of the DHP and PRCRP and to the specific intent of the award mechanism. The highest-scoring applications from the first tier of review are not automatically recommended for funding. Additional information about the two-tier process used by the CDMRP can be found at http://cdmrp.army.mil/about/fundingprocess.

All CDMRP review processes are conducted confidentially to maintain the integrity of the merit-based selection process. Panel members sign a non-disclosure statement that application and evaluation information will not be disclosed outside the panel. Violations of confidentiality can result in the dissolving of a panel(s) and other corrective actions. In addition, personnel at the applicant or collaborating organizations are prohibited from contacting persons involved in the review process to gain protected evaluation information or to influence the evaluation process. Violations of these prohibitions will result in the administrative withdrawal of the organization’s application. Violations by panel members or applicants that compromise the confidentiality of the review process may also result in suspension or debarment from federal awards. Furthermore, the unauthorized disclosure of confidential information of one party to another third party is a crime in accordance with Title 18 United States Code 1905.

B. Application Review Process

1. Peer Review: To determine technical merit, all applications will be evaluated according to the following scored criteria, which are of equal importance:

   • **Principal Investigator**
     - To what degree the PI’s career goals demonstrate a strong personal commitment to advancing an independent career at the forefront of cancer research.
     - To what extent the PI’s record of accomplishments and letters of support demonstrates his/her potential for advancement as a productive, independent investigator in cancer research in at least one of the FY14 PRCRP Topic Areas.

   • **Designated Mentor**
     - How well the Designated Mentor’s background, qualifications, research program, committed resources, and available time support the PI’s career advancement needs.
     - Whether the Designated Mentor is an independent, established researcher in the relevant FY14 PRCRP Topic Area(s) and in at least one of the FY14 PRCRP Military Relevance Focus Areas as demonstrated by a record of publications, patents, and/or funding history.
○ To what degree the Designated Mentor’s track record in mentoring early-career investigators indicates the potential for successful mentorship and advancement of the PI’s independent research career.

- Career Development Plan and Environment
  ○ How well the PI has outlined a detailed, individualized career development plan that will effectively advance his/her independent career as a cancer researcher in at least one of the FY14 PRCRP Topic Areas.
  ○ To what degree the proposed training (such as workshops, seminars, etc.) is appropriate and will prepare the PI for a successful independent career at the forefront of cancer research.
  ○ How well the PI’s career development is supported by the research environment, such as ongoing cancer research at the institution and collaborations with other investigators.
  ○ To what extent unique features of the research environment are integrated into the career development program and how appropriate the features are to advance the independent career of the PI.
  ○ Appropriateness of the levels of effort by the PI, Designated Mentor, and other key personnel to ensure the success of this research effort. Whether there is a clear organizational commitment for laboratory space and to allow protection of at least 30% of the PI’s time for the proposed research.
  ○ How well the training and research requirements are supported by the availability and accessibility to facilities and resources (including collaborative arrangements).
  ○ If applicable, to what degree the intellectual and material property plan is appropriate.

- Research Strategy and Feasibility
  ○ How well the scientific rationale supports the project and its feasibility as demonstrated by a critical review and analysis of the literature, relevant preliminary data, and logical reasoning.
  ○ How well the hypotheses or objectives, aims, experimental design, methods, and analyses are developed.
  ○ To what degree the research project is appropriate for advancing the PI’s independent career at the forefront of cancer research and/or patient care.
  ○ How well the PI acknowledges potential problems and address alternative approaches.

- Impact
  ○ How well the proposed research addresses a critical problem and/or patient care in at least one of the FY14 PRCRP Topic Areas.
○ To what degree the proposed research goals, if achieved, will contribute to advancing the field of cancer research and/or patient care in at least one of the FY14 PRCRP Topic Areas.

○ To what degree the proposed research will impact, either short term or long term, the basic health, welfare, and/or psychosocial wellness of service members, their families, other military beneficiaries or the general welfare of the American public.

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

- **Military Relevance**
  ○ To what extent the proposed research addresses critical gaps in understanding exposures, conditions, or circumstances unique to the military or disproportionately represented within the military beneficiary population.
  ○ To what degree the application is responsive to at least one of the FY14 PRCRP Military Relevance Focus Areas, fills a knowledge gap, and/or will advance the military health system.
  ○ To what degree the identified military-related environment or hazard is supported by evidence, background information, and cited references.

- **Budget**
  ○ Whether the budget is appropriate for the proposed research and within the limitations of this Program Announcement/Funding Opportunity.

- **Application Presentation**
  ○ To what extent the writing, clarity, and presentation of the application components influence the review.

2. **Programmatic Review:** To make funding recommendations, the following equally considered criteria are used by programmatic reviewers:

a. **Ratings and evaluations of the peer reviewers**

b. **Relevance to the mission of the DHP and FY14 PRCRP, as evidenced by the following:**
   - Adherence to the intent of the award mechanism
   - Program portfolio composition
   - Programmatic relevance in relation to military relevance
   - Relative impact

C. **Recipient Qualification**

For general information on required qualifications for award recipients, refer to the General Application Instructions, Appendix 1.
D. Application Review Dates

All application review dates and times are indicated on the title page of this Program Announcement/Funding Opportunity.

E. Notification of Application Review Results

Each PI and organization will receive email notification of posting of the funding recommendation in eBRAP. Each PI will receive a peer review summary statement on the strengths and weaknesses of the application.

IV. ADMINISTRATIVE ACTIONS

After receipt of pre-applications from eBRAP or applications from Grants.gov, the following administrative actions may occur:

A. Rejection

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

- Preproposal Narrative exceeds page limit.
- Preproposal Narrative is missing.

The following will result in administrative rejection of the application:

- Submission of an application for which a letter of invitation was not received.
- Project Narrative exceeds page limit.
- Project Narrative is missing.
- Budget is missing.
- Submission of the same research project to different funding opportunities within the same program and fiscal year.

B. Modification

- Pages exceeding the specific limits will be removed prior to review for all documents other than the Preproposal Narrative and Project Narrative.
- Documents not requested will be removed.
- Following application submission to Grants.gov, the PI will receive an email request from eBRAP to review, modify, and verify the application submitted to Grants.gov. During this verification period, the PI may upload missing documents (excluding those listed in Section IV.A., Rejection), replace files, and re-categorize files. These modifications must be completed by the end of the application verification period; otherwise, the application will be reviewed as submitted.
C. Withdrawal

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

- A FY14 PRCRP IP member is named as being involved in the research proposed or is found to have assisted in the pre-application or application processes including, but not limited to, concept design, application development, budget preparation, and the development of any supporting documentation. A list of the FY14 PRCRP IP members can be found at http://cdmrp.army.mil/prcrp/panels/panels14.
- The application fails to conform to this Program Announcement/Funding Opportunity description to the extent that appropriate review cannot be conducted.
- Direct costs as shown on the Research & Related Budget exceed the maximum allowed by this Program Announcement/Funding Opportunity.
- Inclusion of URLs, with the exception of links in References Cited and Publication and/or Patent Abstract sections.
- Page size is larger than 8.5 inches x 11.0 inches (approximately 21.59 cm x 27.94 cm).
- Inclusion of any employee of CDMRP review contractors in applications for funding without adequate plans to mitigate conflicts of interest. Refer to the General Application Instructions, Section II.B., for detailed information.
- Personnel from applicant or collaborating organizations are found to have contacted persons involved in the review process to gain protected evaluation information or to influence the evaluation process.
- The proposed research is, or requests funding for, a clinical trial.
- The PI and/or Designated Mentor do not meet the eligibility criteria.
- The pre-application or application does not address at least one of the FY14 PRCRP Topic Areas.
- The pre-application or application proposes breast, prostate, lung (excluding mesothelioma) or ovarian cancer research.

D. Withhold

Applications that appear to involve research misconduct will be administratively withheld from further consideration pending institutional investigation. The institution 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.

V. AWARD ADMINISTRATION INFORMATION

A. Award Notice

Awards will be made no later than September 30, 2015. Refer to the General Application Instructions, Appendix 4, for additional award administration information.
B. Administrative Requirements
Refer to the General Application Instructions, Appendix 4 for general information regarding administrative requirements.

C. National Policy Requirements
Refer to the General Application Instructions, Appendix 5 for general information regarding national policy requirements.

D. Reporting
Refer to the General Application Instructions, Appendix 4, Section J, for general information on reporting requirements.

E. Award Transfers
Changes in PI are not allowed, except under extenuating circumstances that will be evaluated on a case-by-case basis and at the discretion of the Grants Officer.
Refer to the General Application Instructions, Appendix 4, Section M, for general information on organization or PI changes.

VI. AGENCY CONTACTS

A. CDMRP Help Desk
Questions related to Program Announcement/Funding Opportunity content or submission requirements as well as questions related to the submission of the pre-application through eBRAP should be directed to the CDMRP Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. ET. Response times may vary depending upon the volume of inquiries.

Phone: 301-682-5507
Email: help@eBRAP.org

B. Grants.gov Contact Center
Questions related to application submission through Grants.gov portal should be directed to the Grants.gov Contact Center, which is available 24 hours a day, 7 days a week (closed on U.S. federal holidays). Note that the CDMRP Help Desk is unable to provide technical assistance with Grants.gov submission.

Phone: 800-518-4726
Email: support@grants.gov

Sign up on Grants.gov for “send me change notification emails” by following the link on the Synopsis page for the Program Announcement/Funding Opportunity or by responding to the prompt provided by Grants.gov when first downloading the application package. If the application package is updated or changed, the original version of the application package may not be accepted by Grants.gov.
### VII. APPLICATION SUBMISSION CHECKLIST

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<th>Grants.gov Application Components</th>
<th>Action</th>
<th>Completed</th>
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<td>SF-424 (R&amp;R) Application for Federal Assistance</td>
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<td>Project Narrative: Upload as Attachment 1 with file name “ProjectNarrative.pdf.”</td>
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<td></td>
<td>Supporting Documentation: Upload as Attachment 2 with file name “Support.pdf.”</td>
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<td>Technical Abstract: Upload as Attachment 3 with file name “TechAbs.pdf.”</td>
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