Program Announcement

for the

Department of Defense
Defense Health Program
Congressionally Directed Medical Research Programs

Peer Reviewed Cancer Research Program

Horizon Award

Funding Opportunity Number: W81XWH-15-PRCRP-HA
Catalog of Federal Domestic Assistance Number: 12.420

SUBMISSION AND REVIEW DATES AND TIMES

- **Pre-Application Deadline:** 5:00 p.m. Eastern time (ET), August 11, 2015
- **Confidential Letters of Recommendation Submission Deadline:** 5:00 p.m. ET, September 29, 2015
- **Application Submission Deadline:** 11:59 p.m. ET, September 29, 2015
- **End of Application Verification Period:** 5:00 p.m. ET, October 2, 2015
- **Peer Review:** November 2015
- **Programmatic Review:** February 2016

*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 2015 (FY15) Peer Reviewed Cancer Research Program (PRCRP) are being solicited for the Defense Health Agency, Research, Development, and Acquisition (DHA RDA) Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). As directed by the Office of the Assistant Secretary of Defense for Health Affairs, the DHA RDA Directorate manages and executes the Defense Health Program (DHP) Research, Development, Test, and Evaluation (RDT&E) appropriation. The executing agent for this Program Announcement/Funding Opportunity is the Congressionally Directed Medical Research Programs (CDMRP). 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 (excluding mesothelioma), 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 FY14 totaled $99.8 million (M). The FY15 appropriation is $50M.

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. The PRCRP is charged by Congress with the mission to investigate cancer risks that may be relevant to active duty Service members, their families, and other military beneficiaries.

B. FY15 PRCRP Topic Areas

To be considered for funding, applications for the PRCRP Horizon 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 FY15 PRCRP Topic Areas are listed below.

- Colorectal cancer
- Genetic cancer research
- Kidney cancer
- Listeria vaccine for cancer
- Liver cancer (New for FY15)
- Melanoma and other skin cancers
- Mesothelioma
- Myeloproliferative disorders
- Neuroblastoma
- Pancreatic cancer
- Stomach cancer (New for FY15)
C. FY15 PRCRP Military Relevance Focus Areas (Revised for FY15)

In addition to addressing at least one of the required Congressionally Directed Topic Areas in Section I.B., applications for the PRCRP Horizon Award are encouraged to address at least one of the FY15 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 FY15 PRCRP seeks to support studies that are responsive to the Military Relevance Focus Areas listed below:

- Militarily relevant risk factors associated with cancer (e.g., ionizing radiation, chemicals, infectious agents, and environmental carcinogens)
- Gaps in cancer prevention, screening, early detection, diagnosis, treatment, and/or survivorship that may affect the general population but have a particularly profound impact on the health and well-being of military members, Veterans, and their beneficiaries

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

*New for FY15*, the Horizon Award supports junior level scientists to conduct impactful research with the mentorship of an experienced cancer researcher (i.e., Mentor). The Horizon Award challenges junior scientists to develop and implement research in the cancer field. This opportunity allows for junior investigators to develop a research project, investigate a problem or question in the field of cancer, and further their intellectual development as a cancer researcher of the future. Under this award mechanism, the junior 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 with assistance from the Mentor. *Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated. Clinical trials will not be supported by this mechanism.*

Key elements of the award are as follows:

- **Principal Investigator (PI):** Both predoctoral candidates and postdoctoral fellows are eligible according to the following definitions:
  - Predoctoral candidate: Must have successfully completed coursework and passed any qualifying examinations by the time of the application submission deadline. The predoctoral candidate should be within two years of his/her acceptance as a...
doctoral candidate, completed all laboratory rotations, and should be working in his/her Mentor’s laboratory at the time of the application submission deadline.

- **Postdoctoral fellow**: Must be within three years of his/her terminal degree (excluding time in residency or on family medical leave) and working in the Mentor’s laboratory at the time of the application submission deadline. The PI’s record of accomplishments (including but not limited to publications, awards, research recognition) will be evaluated regarding his/her potential for contributing to the FY15 PRCRP Topic Area(s) the proposed research addresses.

- **Mentor**: The Mentor must be an experienced cancer researcher as demonstrated by a strong record of active funding and publications in at least one of the FY15 PRCRP Topic Areas. In addition, the Mentor must demonstrate a commitment to advancing the PI’s career in cancer research. The Mentor’s record of accomplishments (such as publications, patents, presentations, etc.) should include documentation of significant contribution to the relevant FY15 PRCRP Topic Area(s).

- **Research Approach**: The scientific rationale and experimental methodology should demonstrate in-depth analysis of the research problem presented. The feasibility of the research design and methods should be well defined, and a clear plan should be articulated as to how the proposed goals of the project can be achieved. Additionally, resources should be identified and supported through documentation. Identification of potential problems and pitfalls are strongly encouraged with alternate approaches addressed. A statistical analysis of the proposed research should be included, if applicable, as well as a power analysis to support the design and sample size.

- **Researcher Development Plan**: A researcher development plan is required and should be prepared with appropriate guidance from the Mentor. The application should include a clearly articulated strategy for acquiring the necessary skills, competence, and expertise to successfully complete the proposed cancer research in at least one of the FY15 PRCRP Topic Areas. If the PI is a predoctoral candidate, the proposed research should be in the topic of the PI’s thesis. If the PI is a postdoctoral fellow, a commitment of 100% effort is required to the proposed research.

- **PRCRP Topic Areas**: The proposed research must address at least one of the FY15 PRCRP Topic Areas.

- **Impact**: The proposed research should have a potential for significant impact on the understanding of and knowledge gaps in the prevention, diagnosis, detection, prognosis, treatment, and/or long term side effects of treatment in one of the FY15 PRCRP topic areas. It is encouraged that the proposed research be relevant to active duty Service members, their families, and other military beneficiaries (see Section I.C., FY15 PRCRP Military Relevance Focus Areas, above.).

**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 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
either by collaborating with a VA investigator who has a substantial role in the research, or by
advertising to the general public.

Research Involving 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 5, and the Human
Subject Resource Document available on the eBRAP “Funding Opportunities & Forms” web
page (https://ebrap.org/eBRAP/public/Program.htm) 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 FY15 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 5, 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.htm.

Research Involving Animals: All DoD-funded research involving new and ongoing research
with animals must be reviewed and approved by the USAMRMC ORP Animal Care and Use
Review Office (ACURO), in addition to the local Institutional Animal Care and Use Committee
(IACUC) of record. IACUC approval at the time of submission is not required. Specific
documents relating to the use of animals in the proposed research will be requested if the
application is selected for funding. The ACURO must review and approve all animal use prior
to the start of working with animals. PIs must submit the institutional animal use protocol,
IACUC approval of that protocol, and a version of the animal use appendix titled “Research
Involving Animals.” Allow at least 3 to 4 months for regulatory review and approval processes
for animal studies. Refer to General Application Instructions, Appendix 5, for additional
information.

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 Landis, S.C., et al. A call for transparent reporting to optimize the predictive
The value of preclinical research, *Nature* 2012, 490: 187-191 ([www.nature.com/nature/journal/v490/n7419/full/nature11556.html](http://www.nature.com/nature/journal/v490/n7419/full/nature11556.html)). 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. Applicants should consult the ARRIVE (Animal Research: Reporting *In Vivo* Experiments) guidelines to ensure relevant aspects of rigorous animal research are adequately planned for and, ultimately, reported. The ARRIVE guidelines can be found at [http://www.nc3rs.org.uk/page.asp?id=1357](http://www.nc3rs.org.uk/page.asp?id=1357).

The CDMRP intends that information, 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 3, Section L.

### E. Eligibility Information

- **Principal Investigator must either be:**
  - A predoctoral candidate within two years of completing required coursework, completed all laboratory rotations, successfully passed qualifying examinations, and is working in his/her Mentor’s laboratory by the time of the application submission deadline,
  - or
  - A postdoctoral fellow within three years of completion of his/her terminal degree (excluding medical residency or family medical leave), and working in the Mentor’s laboratory at the time of the application submission deadline.

- **Mentor**
  - Must hold a position at or above the level of an Assistant Professor (or equivalent),
  - Mentor must have a proven publication and active funding record in at least one of the FY15 PRCRP Topic Areas,
  - Mentor must **not** have a major research focus in breast, prostate, lung (excluding mesothelioma), or ovarian cancer.

- **The PI and the Mentor must be 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, nonprofit, public, and private organizations.

- Refer to the General Application Instructions, Appendix 1, for general eligibility information.
F. Funding

- The maximum period of performance is 1 year.
- The anticipated direct costs budgeted for the entire period of performance will not exceed $75,000. Associated indirect costs can be budgeted in accordance with the organization’s negotiated rate. No budget will be approved by the Government exceeding $75,000 direct costs or using an indirect rate exceeding the organization’s negotiated rate.
- The Horizon Award is not intended to support general laboratory expenses for the mentor.

Refer to the General Application Instructions, Section II.C.5., 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.5. of the General Application Instructions.

For this award mechanism, direct costs may be requested for (not all-inclusive):

- PI salary or stipend
- Research supplies
- Clinical research costs
- Workshop costs
- Travel costs to attend scientific/technical meetings

Shall not be requested for:

- Mentor salary
- Any salary other than PI salary
- 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 medical 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.
Awards to extramural organizations will consist solely of assistance agreements (Cooperative Agreements and Grants). Awards to intramural agencies and other Federal agencies may be executed through a direct fund transfer (e.g., 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.5. Research & Related Budget, for additional information on budget considerations for applications involving Federal agencies.

The CDMRP expects to allot approximately $1.56M of the $50M FY15 appropriation to fund approximately 13 Horizon 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 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.

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/). Refer to the General Application Instructions, Section II.A. for registration and submission requirements for eBRAP and Grants.gov.

eBRAP is a multifunctional web-based system that allows PIs to submit their pre-applications electronically through a secure connection, to view and edit the content of their pre-applications and full applications, to receive communications from the CDMRP, and to submit documentation during award negotiations and period of performance. A key feature of eBRAP is the ability of an organization’s representatives and PIs to view and modify the Grants.gov application submissions associated with them. eBRAP will validate Grants.gov application files against the specific Program Announcement/Funding Opportunity requirements and discrepancies will be noted in an email to the PI and in the Full Application Files tab in eBRAP. It is the applicant’s responsibility to review all application components for accuracy as well as ensure proper ordering as specified in this Program Announcement/Funding Opportunity.

PIs should ensure that their name and email address are the same as the name and email address that will be provided on the SF-424 Form of the Grants.gov application package submitted to Grants.gov. The organization, Business Officials, PI(s), and eBRAP log number named in the full application submitted to Grants.gov must match those named in the pre-application in eBRAP.
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.

A. Where to Obtain the Grants.gov Application Package

To obtain the Grants.gov application package, including all required forms, perform a basic search using the Funding Opportunity Number W81XWH-15-PRCRP-HA in Grants.gov (http://www.grants.gov/).

B. Pre-Application Submission Content

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

PIs, mentors, and organizations 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.

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**
  - Enter contact information for the PI. Enter the organization’s Business Official responsible for sponsored program administration (the “person to be contacted on matters involving this application” in Block 5 of the Grants.gov SF-424 Form). The Business Official must either be selected from the eBRAP list or invited in order for the pre-application to be submitted.
  - It is recommended that PIs identify an Alternate Submitter in the event that assistance with pre-application submission is needed.
- **Collaborators and Key Personnel – Tab 3**
  - Enter the name, organization, and role of all collaborators and key personnel associated with the application.
  - FY15 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.
• Conflicts of Interest (COIs) – Tab 4
  ○ List all individuals other than collaborators and key personnel who may have a COI
    in the review of the application (including those with whom the PI has a personal or
    professional relationship).

• Pre-Application Files – Tab 5
  ○ Letter of Intent (LOI) (one-page limit): Provide a brief description of the
    research to be conducted. Include the topic area under which the application will be
    submitted. LOIs are used for program planning purposes only (e.g., reviewer
    recruitment) and will not be reviewed during either the peer or programmatic
    review sessions.
  ○ List of Individuals Providing Confidential Letters of Recommendation: Enter
    into the appropriate data fields the names, position titles, email addresses, and
    phone numbers for three individuals who will provide letters of recommendation.
    The three letters of recommendation must include one from the mentor and two
    from other independent researchers who have had scientific knowledge and
    interaction with the PI. Each individual will receive an email generated from
    eBRAP containing specific instructions on how to upload the letter.

• Submit Pre-Application – Tab 6
  ○ This tab must be completed for the pre-application to be accepted and processed.

C. Full Application Submission Content

_The CDMRP cannot make allowances/exceptions to its policies for submission problems
encountered by the applicant organization using system-to-system interfaces with Grants.gov._

Each application submission must include the completed Grants.gov application package
provided in Grants.gov for this Program Announcement/Funding Opportunity. The Grants.gov
application package is submitted by the Authorized Organizational Representative through the
Grants.gov portal ([http://www.grants.gov/](http://www.grants.gov/)). For the Horizon Award, additional application
components are also required and should be submitted as directed below.

*Note:* The Project Narrative and Budget Form cannot be changed after the application
submission deadline. If either the Project Narrative or the budget fails eBRAP validation or if
the Project Narrative or Budget Form needs to be modified, an updated Grants.gov application
package must be submitted via Grants.gov as a “Changed/Corrected Application” with the
previous Grants.gov Tracking ID **prior to the application submission deadline.**

*Note:* 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.

**Grants.gov application package components:** For the Horizon 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**

Each attachment to the Grants.gov application forms must be uploaded as an individual PDF file in accordance with the formatting guidelines listed in Appendix 2 of the General Application Instructions. For all attachments, ensure that the file names are consistent with the guidance. Grants.gov will reject attachments with file names longer than 50 characters or incorrect file names that contain characters other than the following: A-Z, a-z, 0-9, underscore, hyphen, space, and period. In addition, Grants.gov has file size limits that may apply in some circumstances. Individual attachments may not exceed 20 MB and the file size for the entire Grants.gov application package may not exceed 200 MB.

- **Attachment 1: Project Narrative (four-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 may result in administrative withdrawal of the application.

Describe the proposed project in detail using the outline below.

- **Principal Investigator:** Describe the PI’s potential for a career at the forefront of cancer research in at least one of the FY15 PRCRP Topic Areas, including qualifications and achievements that make the PI an ideal candidate for this award with respect to the current academic level of the PI (pre- or postdoctoral candidate). Describe the PI’s career goals as a cancer researcher. If the PI is a postdoctoral fellow describe the record of accomplishments (including but not limited to awards, publications, etc.) that may demonstrate how the PI will succeed in a future career in cancer research.

- **Mentor:** Describe the qualifications of the Mentor including record of research accomplishments, publications, patents, and funding in the relevant FY15 PRCRP Topic Area(s). Describe the Mentor’s track record for training junior investigators.

- **Research:**
  - **Background:** Present the scientific rationale and experimental methodology and demonstrate an in-depth analysis of the research problem to be studied. Describe the resources available.
  - **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. A statistical analysis of the proposed research should be included, if applicable, as well as a power analysis to support the design and sample size. Identify any potential problems and pitfalls and present strategies for alternate approaches.

- **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 will result in the removal of those items or may result in administrative withdrawal of the application.**
  
  - References Cited (five-citation limit): 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: Include a list of relevant publication URLs and/or patent abstracts. If publications are not publicly available, then copies of up to five published manuscripts may be included in Attachment 2. Extra items will not be reviewed.
  
  - Letters of Organizational Support: Provide a letter (or letters, if applicable), signed by the Department Chair or appropriate organization official, confirming the laboratory space, equipment, and other resources available for the project. Letters of support not requested in the Program Announcement/Funding Opportunity, such as those from members of Congress, do not impact application review or funding decisions.
  
  - Letters of Collaboration (if applicable): Provide a signed letter from each collaborating individual or organization that will demonstrate that the PI has the support or resources necessary for the proposed work.
  
  - Transcripts: Include a copy of the PI’s transcripts from all graduate institutions attended. All foreign-language transcripts must be accompanied by a certified English translation. The Government reserves the right to request official
transcripts during award negotiations. Diplomas are not acceptable in lieu of academic transcripts.

If an institution does not provide academic transcripts (i.e., a record of courses completed, grades and credit hours earned, and indication of completion of degree), complete and include the Academic Statement (available for download on the Full Announcement page in Grants.gov) in place of the transcript.

○ Intellectual Property
  - Background and Proprietary Information: All software and data first produced under the award are subject to a Federal purpose license. 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 3, Section L for more information about the CDMRP expectations for making data and research resources publicly available.


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 FY15 PRCRP Topic Areas. Describe the Mentor’s background and experience in the relevant FY15 PRCRP Topic Area(s).

○ Research Development: Describe the strategy for acquiring the necessary skills, competence, and expertise to successfully complete the proposed cancer research in at least one of the FY15 PRCRP Topic Areas.

○ 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. Identify the FY15 Military Relevance Focus Area to be addressed, if applicable. Briefly describe how the proposed research is relevant to active duty service members, their families, and other military beneficiaries.

- **Attachment 4: Lay Abstract (one-page limit): Upload as “LayAbs.pdf.”** Use only characters available on a standard QWERTY keyboard. Spell out all Greek letters, other non-English letters, and symbols. Graphics are not allowed.

  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 PI’s career goals in cancer research.
    - How will the award advance the PI’s career in at least one of the FY15 PRCRP Topic Areas?
    - Address how the research will advance the field of study in a manner relevant to a FY15 Military Focus Area(s)
    - How does the researcher development plan support the PI in attaining these goals?
  
  - 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 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) (two-page limit): Upload as “SOW.pdf.”** The suggested SOW format and examples specific to different types of research projects are available on the eBRAP “Funding Opportunities & Forms” web page (https://ebrap.org/eBRAP/public/Program.htm). For the Horizon Award mechanism, use the SOW format example titled “SOW (Statement of Work) Generic Format.” The SOW must be in PDF format prior to attaching. Refer to the
General Application Instructions, Section II.C.3., for detailed guidance on creating the SOW.

- **Attachment 6: Researcher Development Plan (one page limit): Upload as “ResearchDev.pdf.”**
  - Clearly articulate a strategy for acquiring the necessary skills, competence, and expertise to successfully complete the proposed cancer research in at least one of the FY15 PRCRP Topic Areas.
  - Indicate how the individualized researcher development plan will provide the PI with an opportunity to develop a research project, investigate a problem or question in the field of cancer, and further their intellectual development as a cancer researcher of the future.
  - Describe how the researcher development plan is supported by the environment and mentorship, including a description of ongoing cancer research at the institution in the relevant FY15 PRCRP Topic Area(s). Include information on collaborations with other investigators, seminars, workshops, and other opportunities to interact with leaders in the cancer field.

- **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 FY15 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.
  - Describe the anticipated short- and/or long-term outcomes of the proposed research and their potential impact on the basic health and welfare of active duty Service members, their families, and other military beneficiaries.

- **Attachment 8: 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 9: Collaborating DoD Military Facility Budget Form(s), if applicable: Upload as “MFBudget.pdf.”** If a Military Facility (military health system facility, research laboratory, treatment facility, dental treatment facility, or a DoD activity embedded with a civilian medical center) will be a collaborator in performance of the project, complete the Collaborating DoD Military Facility Budget Form (available for download on the eBRAP “Funding Opportunities & Forms” web page), including a budget justification, for each Military Facility as instructed. Refer to the General Application Instructions, Section II.C.8., for detailed information.
3. **Research & Related Senior/Key Person Profile (Expanded):** Refer to the General Application Instructions, Section II.C.4., for detailed information. Note: Some of the items in this attachment may be made available for programmatic review.

- PI Biographical Sketch (five-page limit): Upload as “Biosketch_LastName.pdf.” The suggested biographical sketch format is available on the “Funding Opportunities & Forms” web page (https://ebrap.org/eBRAP/public/Program.htm) in eBRAP. The five-page National Institutes of Health Biographical Sketch may also be used.
- PI Previous/Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”
- Key Personnel Biographical Sketches (five-page limit each): Upload as “Biosketch_LastName.pdf.”
  - Include Mentor’s biographical sketch.
- Key Personnel Previous/Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”
  - Include Mentor’s previous/current/pending support.

4. **Research & Related Budget:** Refer to the General Application Instructions, Section II.C.5., for detailed information.

- Budget Justification (no page limit): Upload as “BudgetJustification.pdf.” The budget justification for the entire period of performance must be uploaded to the Research & Related Budget after completion of the budget for Period 1.

5. **Project/Performance Site Location(s) Form:** Refer to the General Application Instructions, Section II.C.6., for detailed information.

6. **R & R Subaward Budget Attachment(s) Form (if applicable):** Refer to the General Application Instructions, Section II.C.7., for detailed information.

**Additional Application Components:** In addition to the complete Grants.gov application package of forms and attachments, the Horizon Award applications also require the submission of three confidential letters of recommendation from the three individuals named during the pre-application process.

1. **Three Confidential Letters of Recommendation (two pages per letter recommended):** The three letters of recommendation should be provided on letterhead, signed, and uploaded as PDF files to eBRAP by 5:00 p.m. ET on the application deadline. The PI should monitor whether the letters have been received in eBRAP by viewing the status in the “Required Files” tab of the pre-application; however, the PI will not be able to view these letters. If confidential letters of recommendation cannot be submitted by the individuals named in the pre-application, the PI should contact the CDMRP Help Desk at help@eBRAP.org or 301-682-5507.
- **Confidential letter(s) of recommendation from the mentor(s):** The PI’s mentor must submit a letter describing the mentor’s commitment to the PI’s training, researcher development, and mentorship. If the PI has a co-mentor, then that individual must also submit a letter of recommendation. Each mentor’s or co-mentor’s letter of recommendation should describe:
  - The PI’s potential to become a successful and independent researcher in one of the FY15 PRCRP Topic Areas;
  - The mentor’s or co-mentor’s commitment to the training, researcher development, and mentorship of the PI, including details of his/her proposed interactions with the PI during the PI’s training and how he/she intends to support the PI’s research endeavors; and
  - The relevance of the proposed research project to training the PI in at least one of the FY15 PRCRP Topic Areas.

- **Additional confidential letter(s) of recommendation:** The remaining letter(s) should be from independent researchers who have had scientific knowledge and interaction with the PI. The letters should highlight the PI’s potential for success in pursuing a career in at least one of the FY15 PRCRP Topic Areas research. Specifically, each letter should include the writer’s perspective on:
  - The PI’s qualifications, characteristics, and achievements;
  - The PI’s potential for productivity and desire for establishing a successful career at the forefront of cancer research;
  - The relevance of the proposed research project to training the PI to at least one of the FY15 PRCRP Topic Areas;
  - The suitability of the mentor and individualized training plan for providing the PI with a solid foundation in cancer research.

**D. Applicant Verification of Grants.gov Submission in eBRAP**

Prior to the end of the application verification period, PIs and organizational representatives can review and modify in eBRAP certain components of an application submitted to Grants.gov. Following retrieval and processing of the Grants.gov application, eBRAP will notify the organizational representatives and PI by email to log into eBRAP to review, modify, and verify the Grants.gov application submission. eBRAP will validate retrieved files against the specific Program Announcement/Funding Opportunity requirements and discrepancies will be noted in both the email and in the Full Application Files tab in eBRAP. eBRAP does not confirm the accuracy of file content. It is the applicant’s responsibility to review all application components and ensure proper ordering as specified in the Program Announcement/Funding Opportunity. **If either the Project Narrative or the budget fails eBRAP validation, an updated Grants.gov application package must be submitted via Grants.gov as a “Changed/Corrected Application” with the previous Grants.gov Tracking ID prior to the application submission deadline.** The Project Narrative and Budget Form cannot be changed after the application submission deadline.
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 DUNS number to submit applications to Grants.gov. The applicant organization must also be registered in the Entity Management functional area of the SAM with an “Active” status to submit applications through the Grants.gov portal. Refer to the General Application Instructions, Section II.A., for information on Grants.gov registration requirements.

III. APPLICATION REVIEW INFORMATION

A. Application Review and Selection Process

All applications 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 DHA RDA Directorate and the Office of the Assistant Secretary of Defense 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.shtml.

All CDMRP review processes are conducted confidentially to maintain the integrity of the merit-based selection process. Panel members sign a nondisclosure 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:
     ○ Whether the PI meets one of the eligibility requirements as a predoctoral candidate or a postdoctoral fellow.
     ○ To what degree the PI’s qualifications and achievements demonstrate the PI’s potential for a career at the forefront of cancer research in at least one of the FY15 PRCRP Topic Areas.
     ○ Whether the PI’s career goals show a strong personal commitment to advancement toward an independent career in cancer research.
     ○ Whether the letters of recommendation show the qualifications of the PI to succeed in a career in cancer research.

   • Mentor:
     ○ Whether the Mentor meets the eligibility requirements.
     ○ To what degree the Mentor’s record of research accomplishments, publications, patents, and funding demonstrate a strong commitment and high level of qualifications in the relevant FY15 PRCRP Topic Area(s).
     ○ Whether the Mentor has successfully trained junior investigators in the relevant FY15 PRCRP Topic Area(s).

   • Research:
     ○ How well the scientific rationale supports the project and its feasibility as demonstrated by a critical review and analysis of the literature, and logical reasoning.
     ○ Whether the experimental design and the statistical plan, if applicable, are appropriate for the research proposed.
     ○ How well the hypotheses or objectives, aims, experimental design, methods, and analyses are developed.
     ○ To what degree the research project is appropriate for the PI’s training and development as a predoctoral candidate or postdoctoral fellow.
     ○ How well the PI acknowledges potential problems and addresses alternative approaches.

   • Researcher Development Plan and Environment
     ○ Whether the plan articulates a strategy for the PI to acquire the necessary skills, competence, and expertise to successfully complete the proposed cancer research in at least one of the FY15 PRCRP Topic Areas.
○ How well the individualized researcher development plan will provide the PI with an opportunity to develop a research project, investigate a problem or question in the field of cancer and further their intellectual development as a cancer researcher of the future.

○ To what extent the researcher development plan is supported by the environment and mentorship, including a description of ongoing cancer research at the institution in the relevant FY15 PRCRP Topic Area(s).

○ To what extent unique features of the research environment are integrated into the researcher development plan.

○ Appropriateness of the levels of effort by the PI, Mentor, and other key personnel to ensure the success of this research effort. Whether the PI will commit 100% effort on the proposed project (if at the level of postdoctoral fellow).

• Impact

○ To what degree the proposed work addresses a critical problem in at least one of the FY15 PRCRP Topic Areas.

○ To what extent the pathway will impact cancer research and/or patient care and whether how the PI’s specific research goals, if achieved, would fit into that pathway.

○ To what degree the proposed research will impact, short term or long term, the basic health, and welfare 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:

• 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 and select the application(s) that, individually or collectively, will best achieve the program objectives, 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 FY15 PRCRP, as evidenced by the following:
   - Adherence to the intent of the award mechanism
   - Program portfolio composition
   - Programmatic 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 applications from Grants.gov, the following administrative actions may occur:

A. Rejection

The following will result in administrative rejection of the application:
   - Pre-application was not submitted.
   - Project Narrative exceeds page limit.
   - Project Narrative is missing.
   - Budget is missing.

B. Modification

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

The following may result in administrative withdrawal of the application:

- A FY15 PRCRP Integration Panel (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 FY15 PRCRP IP members can be found at http://cdmrp.army.mil/prcrp/panels/panels15.shtml.

- The application fails to conform to this Program Announcement/Funding Opportunity description to the extent that appropriate review cannot be conducted.

- 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.

- If a clinical trial is proposed, the application will be withdrawn.

- An application submitted by a PI who does not meet the eligibility criteria will be withdrawn.

- An application with a proposed Mentor who does not meet the eligibility criteria will be withdrawn.

- If the application does not address at least one of the FY15 PRCRP Topic Areas, the application will be withdrawn.

- Submission of the same research project to different Funding Opportunities within the same program and fiscal year.

- If the application proposes breast, prostate, lung (excluding mesothelioma) or ovarian cancer research, the application will be withdrawn.

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, 2016. Refer to the General Application Instructions, Appendix 3, for additional award administration information.

Any assistance instrument awarded under this Program Announcement/Funding Opportunity will be governed by the award terms and conditions, which conform to DoD’s implementation of the Office of Management and Budget (OMB) circulars applicable to financial assistance. Terms and conditions of new awards made after December 26, 2014 may include revisions to reflect DoD implementation of new OMB guidance in the Code of Federal Regulations, Title 2, Part 200, “Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards” (2 CFR part 200).

B. Administrative Requirements

Refer to the General Application Instructions, Appendix 3 for general information regarding administrative requirements.

C. National Policy Requirements

Refer to the General Application Instructions, Appendix 4 for general information regarding national policy requirements.

D. Reporting

Refer to the General Application Instructions, Appendix 3, Section I, 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 3, 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 Grants.gov application package. If the Grants.gov 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>Upload Order</th>
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