I. OVERVIEW OF THE FUNDING OPPORTUNITY

Program Announcement for the Department of Defense

Defense Health Program

Congressionally Directed Medical Research Programs

Lung Cancer Research Program

Career Development Award

Announcement Type: 1st Modification

Funding Opportunity Number: W81XWH-17-LCRP-CDA

Catalog of Federal Domestic Assistance Number: 12.420 Military Medical Research and Development

SUBMISSION AND REVIEW DATES AND TIMES

• Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 20, 2017

• Application Submission Deadline: 11:59 p.m. ET, October 4, 2017

• End of Application Verification Period: 5:00 p.m. ET, October 10, 2017

• Peer Review: November 2017

• Programmatic Review: January 2018

This Program Announcement must be read in conjunction with the General Application Instructions, version 20170418. The General Applications Instructions document is available for downloading from the Grants.gov funding opportunity announcement by selecting the “Package” tab, clicking “Preview,” and then selecting “Download Instructions.”
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II. DETAILED INFORMATION ABOUT THE FUNDING OPPORTUNITY

II.A. Program Description

Applications to the Fiscal Year 2017 (FY17) Lung Cancer Research Program (LCRP) are being solicited for the Defense Health Agency (DHA) J9, Research and Development Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA) using delegated authority provided by United States Code, Title 10, Section 2358 (10 USC 2358). As directed by the Office of the Assistant Secretary of Defense for Health Affairs (OASD[HA]), the DHA manages the Defense Health Program (DHP) Research, Development, Test, and Evaluation (RDT&E) appropriation. The execution management agent for this Program Announcement is the Congressionally Directed Medical Research Programs (CDMRP). The LCRP was initiated in FY09 to promote innovative and competitive research focused on the development of integrated disciplines to identify, treat, and manage early curable lung cancer (excluding mesothelioma). Appropriations for the LCRP from FY09 through FY16 totaled $101.5 million (M). The FY17 appropriation is $12M.

The goal of the FY17 LCRP is to eradicate deaths from lung cancer to better the health and welfare of military Service members, Veterans, their families, and the American public. As such, the LCRP will support and integrate research from multiple disciplines for risk assessment, prevention, early detection, diagnosis, and treatment for the control and cure of lung cancer.

II.A.1. FY17 LCRP Areas of Emphasis

To be considered for funding, applications for the FY17 LCRP Career Development Award must address at least one of the seven Areas of Emphasis listed below:

- Identify, develop, or optimize noninvasive or minimally invasive tools to improve the detection of the initial stages of lung cancer, such as, but not limited to, optimizing strategies for management of indeterminate nodules.

- Identify, develop, and/or build upon already existing tools for screening or early detection of lung cancer. Screening may include, but is not limited to, imaging modalities, biomarkers, genetics/genomics/proteomics/metabolomics/transcriptomics, and assessment of risk factors.

- Understand the molecular mechanisms of initiation and progression to clinically significant lung cancer.

- Identify innovative strategies for prevention and treatment of early and/or localized lung cancer.

- Understand predictive and prognostic markers to identify responders and nonresponders.

- Understand susceptibility or resistance to treatment.

- Understand contributors to lung cancer development other than tobacco.
II.B. Award Information

The FY17 LCRP Career Development Award supports early-career, independent investigators to conduct impactful research under the mentorship of an experienced lung cancer researcher as an opportunity to obtain the funding, mentoring, and experience necessary for productive, independent careers at the forefront of lung cancer research. This award is intended to support impactful research projects with an emphasis on discovery. Submissions from and partnerships with investigators at military treatment facilities, military labs, and Department of Veterans Affairs (VA) medical centers and research laboratories are strongly encouraged.

Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated.

Key elements of this award are as follows:

- **Principal Investigator (PI):** PIs must be research- or physician-scientists at an early stage of their independent research careers. PIs must be within 5 years of their first faculty appointment (or equivalent) and exhibit a strong desire to pursue a career in lung cancer research.

- **Mentorship:** The mentor must be an experienced lung cancer researcher as demonstrated by a strong record of funding and publications in lung cancer research. In addition, the mentor must demonstrate a commitment to developing the PI’s career in lung cancer research.

- **Career Development:** A Career Development Plan is required and should be prepared with appropriate guidance from the mentor. A clearly articulated strategy for acquiring the necessary skills, competence, and expertise to have a career at the forefront of lung cancer research should be included. The plan should outline how the PI will gain experience in lung cancer research. Because career development is the focus of this award, the PI’s institution must demonstrate a commitment to the PI through a minimum of 40% protected time for the lung cancer research, though more protected time is highly desirable.

- **Impact:** Research that has high potential impact may lead to major advancements and significantly accelerate progress toward eradicating deaths from lung cancer.

- **Relevance to Military Beneficiaries:** The application should clearly articulate how the proposed research is relevant to Service members, Veterans, and their families.

The anticipated direct costs budgeted for the entire period of performance for an FY17 LCRP Career Development Award will not exceed $250,000. Refer to Section II.D.5, Funding Restrictions, for detailed funding information.

**Military Relevance:** The LCRP seeks to support research that is relevant to the healthcare needs of military Service members, Veterans, and their families. Military relevance will be considered in determining relevance to the mission of the DHP and FY17 LCRP during programmatic review. Investigators are strongly encouraged to consider the following characteristics as examples of how a project may demonstrate military relevance:
• Use of military or Veteran populations, biospecimens, data/databases, or programs in the proposed research.

• Collaboration with Department of Defense (DoD) or VA investigators.

• Involvement of military consultants (Army, Air Force) or specialty leaders (Navy, Marine Corps) to the Surgeons General in a relevant specialty area.

• Description of how the knowledge, information, products, or technologies gained from the proposed research could be implemented in a dual-use capacity to address a military need that also benefits the civilian population.

• Explanation of how the project addresses an aspect of lung cancer that has direct relevance to military Service members, Veterans, or other military health system beneficiaries, including environmental exposures other than tobacco.

Use of Active Duty Military and VA Populations: If the proposed research plan involves access to active duty military and/or VA patient populations or resources, the PI is responsible for establishing and demonstrating such access. If possible, access to target active duty military and/or VA patient populations/resources 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 applicant has demonstrated support for and access to the relevant population(s) and/or resources. 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.

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) prior to research implementation. This administrative review requirement is in addition to the local Institutional Review Board (IRB) or Ethics Committee (EC) review. Local IRB/EC 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/EC. Allow a minimum of 2 to 3 months for HRPO regulatory review and approval processes. When possible, protocols should be written for research with human subjects and/or human anatomical substances that are specific to the DoD-supported effort outlined in the submitted application. Submission to HRPO of protocols covering more than the scope of work in the DoD-funded award will require HRPO review of the entire protocol as DoD-supported research and may include extensive modifications to meet DoD human subjects protection requirements. Refer to the General Application Instructions, Appendix 1, and the Human Subject Resource Document available on the electronic Biomedical
Clinical trials are not allowed. A clinical trial is defined as a prospective accrual of patients (human subjects) in whom an intervention (e.g., device, drug, biologic, surgical procedure, rehabilitative modality, behavioral intervention, or other) is tested for a measurable outcome with respect to safety, effectiveness, and/or efficacy. This outcome represents a direct effect on the subject of that intervention or interaction. Investigators wishing to apply for funding to support a clinical trial should consider submitting an application to the FY17 LCRP Translational Research Partnership Award mechanism (Funding Opportunity Number: W81XWH-17-LCRP-TRPA).


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, including amendments to ongoing projects. 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 2 to 3 months for ACURO regulatory review and approval processes for animal studies. Refer to the General Application Instructions, Appendix 1, for additional information.

All investigators applying to FY17 LCRP funding opportunities are encouraged to consider leveraging resources available through the LCRP-funded Lung Cancer Biospecimen Resource Network (LCBRN) (http://lungbio.sites.virginia.edu/) if retrospectively collected human anatomical substances and correlated clinical data are relevant to the proposed studies.

The CDMRP intends that information, data, and research resources generated under awards funded by this Program Announcement 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 2, Section K.

Awards will be made no later than September 30, 2018. For additional information refer to Section II.F.1, Federal Award Notices.
II.C. Eligibility Information

II.C.1. Eligible Applicants

II.C.1.a. Organization: All organizations, including international organizations, are eligible to apply.

Government Agencies within the United States: Local, state, and Federal Government agencies are eligible to the extent that applications do not overlap with their fully funded internal programs. Such agencies are required to explain how their applications do not overlap with their internal programs.

As applications for this Program Announcement may be submitted by extramural and intramural organizations, these terms are defined below.

Extramural Organization: An eligible non-DoD organization. Examples of extramural organizations include academia, biotechnology companies, foundations, Government, and research institutes. Extramural Submission: Application submitted by a non-DoD organization to Grants.gov.

Intramural DoD Organization: A DoD laboratory, DoD military treatment facility, and/or DoD activity embedded within a civilian medical center. Intramural Submission: Application submitted by a DoD organization for an intramural investigator who is a DoD military or civilian employee working within a DoD laboratory or military treatment facility or in a DoD activity embedded within a civilian medical center.

Note: Applications from an intramural organization or from an extramural non-DoD Federal organization may be submitted through a research foundation.

The USAMRAA makes awards to eligible organizations, not to individuals.

II.C.1.b. Principal Investigator and Mentor:

- Principal Investigator
  - The PI must be an independent investigator at the level of Assistant Professor, Instructor, or equivalent; and be within 5 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 at least 40% of protected time for lung cancer research.
  - The PI must not have received a Career Development Award (or equivalent) previously from any program within the CDMRP.
○ The PI must not have received more than $300,000 in total direct costs for previous or concurrent lung cancer research as a PI of one or more Federally or privately funded, non-mentored, peer-reviewed grants.

- Mentor
  ○ The mentor must hold a position at or above the level of an Associate Professor (or equivalent).
  ○ The mentor must have a strong publication and funding record in lung cancer research.

It is not required that the PI and the mentor be located at the same institution.

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

The CDMRP encourages all PIs to participate in a digital identifier initiative through Open Researcher and Contributor ID, Inc. (ORCID). Registration for a unique ORCID identifier can be done online at http://orcid.org/.

II.C.2. Cost Sharing

Cost sharing/matching is not an eligibility requirement.

II.C.3. Other

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

Each investigator may submit only one LCRP Career Development Award application as a PI.

For general information on required qualifications for award recipients, refer to the General Application Instructions, Appendix 3.

Refer to Section II.H.2, Administrative Actions, for a list of administrative actions that may be taken if a pre-application or application does not meet the administrative, eligibility, or ethical requirements defined in this Program Announcement.

II.D. Application and 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(s).

Extramural Submission is defined as an application submitted by a non-DoD organization to Grants.gov.
Intramural Submission is defined as an application submission by a DoD organization for an intramural investigator, who is 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.

II.D.1. Address to Request Application Package

Submitting Extramural and Intramural Organizations: Pre-application content and forms can be accessed at eBRAP (https://eBRAP.org).

Submitting Extramural Organizations: Full application packages can be accessed at Grants.gov.

Submitting Intramural DoD Organizations: Full application packages can be accessed at eBRAP.org.

Contact information for the CDMRP Help Desk and the Grants.gov Contact Center can be found in Section II.G, Federal Awarding Agency Contacts.

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

Submission is a two-step process requiring both pre-application and full application as indicated below. The submission process should be started early to avoid missing deadlines. There are no grace periods.

Pre-application Submission: All pre-applications for both extramural and intramural organizations must be submitted through eBRAP (https://eBRAP.org/).

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.

Full Application Submission: Full applications must be submitted through the online portals as described below.

Submitting Extramural Organizations: Full applications from extramural organizations must be submitted through Grants.gov. Applications submitted by extramural organizations (e.g., research foundations) on behalf of intramural DoD or other Federal organizations or investigators will be considered extramural submissions.

Submitting Intramural DoD Organizations: Intramural DoD organizations may submit full applications to either eBRAP or Grants.gov. Intramural DoD organizations that are unable to submit to Grants.gov should submit through eBRAP. Intramural DoD organizations with the capability to submit through Grants.gov may submit following the instructions for extramural submissions through Grants.Gov or may submit to eBRAP. Applications from extramural organizations, including non-DoD Federal organizations, received through eBRAP will be withdrawn. See definitions in Section II.C.1, Eligible Applicants.
eBRAP allows intramural organizations to submit full applications following pre-application submission.

**For both Extramural and Intramural applicants:** A key feature of eBRAP is the ability of an organization’s representatives and PIs to view and modify the full application submissions associated with them. eBRAP will validate full application files against the specific Program Announcement 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.

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

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

During the pre-application process, each submission is assigned a unique log number by eBRAP. This unique eBRAP log number will be needed during the full application submission process.

To begin the pre-application process, first select whether the submitting organization is extramural or intramural, then confirm your selection or cancel. **Incorrect selection of extramural or intramural submission type may result in delays in processing.**

If an error has been made in the selection of extramural versus intramural and the pre-application submission deadline has passed, the PI or Business Official must contact the CDMRP Help Desk at help@eBRAP.org or 301-682-5507.

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. No change in PI will be allowed after the pre-application deadline. 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):
• **Tab 1 – Application Information**

• **Tab 2 – Application Contacts**

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 SF424 (R&R) Form). The Business Official must be either selected from the eBRAP list or invited in order for the pre-application to be submitted.

Select the performing organization (site at which the PI will perform the proposed work) and the contracting organization (organization submitting on behalf of the PI, which corresponds to Block 5 on the Grants.gov SF424 (R&R) Form), and click on “Add Organizations to this Pre-application.” The organization(s) must be either selected from the eBRAP drop-down 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.

• **Tab 3 – Collaborators and Key Personnel**

Enter the name, organization, and role of all collaborators and key personnel associated with the application.

FY17 LCRP Programmatic Panel members should not be involved in any pre-application or application. For questions related to panel members and pre-applications or applications, refer to Section II.H.2.c, Withdrawal, or contact the CDMRP Help Desk at help@eBRAP.org or 301-682-5507.

To preserve the integrity of its peer and programmatic review processes, the CDMRP discourages inclusion of any employee of its review contractors having any role in pre-application or application preparation, research, or other duties for submitted pre-applications or applications. For FY17, the identities of the peer review contractor and the programmatic review contractor may be found at the CDMRP website (http://cdmrp.army.mil/about/2tierRevProcess). Pre-applications or applications that include names of personnel from either of these companies will be administratively withdrawn unless plans to manage conflicts of interest (COIs) are provided and deemed appropriate by the Grants Officer. Refer to the General Application Instructions, Appendix 3, for detailed information.

• **Tab 4 – Conflicts of Interest (COIs)**

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). Refer to the General Application Instructions, Appendix 3, Section C, for further information regarding COIs.
• **Tab 5 – Pre-Application Files**

  o **Pre-Application Relevance Questions:** Provide responses in the appropriate data fields for the following in eBRAP:

    1. Is the applicant currently affiliated with the military and/or VA? (Yes/No)

    2. Does the proposed research include collaborations with a current military and/or VA investigator/institutions? (Yes/No)

    3. Does the proposed research include the use of military and/or VA resources (e.g., data, patient samples)? (Yes/No) If yes, specify the resource and how the resource will be accessed to conduct the proposed research. (500-character limit, including spaces)

  o **Letter of Intent (LOI) (one-page limit):** Provide a brief description of the research to be conducted. Include the LCRP Area(s) of Emphasis 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.

• **Tab 6 – Submit Pre-Application**

  This tab must be completed for the pre-application to be accepted and processed.

II.D.2.b. **Step 2: Full Application Submission Content**

*All contributors and administrators to the application must use matching compatible versions of Adobe software when editing and preparing application components. The use of different software versions will result in corruption of the submitted file. Refer to the General Application Instructions, Section III, for details on compatible Adobe software.*

*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 full application package for this Program Announcement. The full application package is submitted by the Authorized Organizational Representative through Grants.gov (https://www.grants.gov/) for extramural organizations or through eBRAP (https://ebrap.org/) for intramural organizations. See Table 1 below for more specific guidelines.

II.D.2.b.i. **Full Application Guidelines**

Extramural organizations, including non-DoD Federal agencies, must submit full applications through Grants.gov. Submissions of extramural applications through eBRAP may be withdrawn.
Table 1. Full Application Submission Guidelines

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<thead>
<tr>
<th>Extramural Submissions</th>
<th>Intramural DoD Submissions</th>
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<tbody>
<tr>
<td><strong>Application Package Location</strong></td>
<td><strong>Application Package Location</strong></td>
</tr>
<tr>
<td>Download application package components for W81XWH-17-LCRP-CDA from Grants.gov (<a href="https://www.grants.gov">https://www.grants.gov</a>).</td>
<td>Download application package components for W81XWH-17-LCRP-CDA from eBRAP (<a href="https://ebrap.org">https://ebrap.org</a>).</td>
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**Full Application Package Components**

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<th>Extramural Submissions</th>
<th>Intramural DoD Submissions</th>
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<tbody>
<tr>
<td><strong>SF424 (R&amp;R) Application for Federal Assistance Form:</strong> Refer to the General Application Instructions, Section III.A.1, for detailed information.</td>
<td><strong>Tab 1 – Summary:</strong> Provide a summary of the application information. <strong>Tab 2 – Application Contacts:</strong> This tab will be pre-populated by eBRAP; add Authorized Organizational Representative.</td>
</tr>
</tbody>
</table>
| Descriptions of each required file can be found under Full Application Submission Components:  
- Attachments  
- Research & Related Senior/Key Person Profile (Expanded)  
- Research & Related Budget  
- Project/Performance Site Location(s) Form  
- R&R Subaward Budget Attachment(s) Form (if applicable) | **Tab 3 – Full Application Files:** Upload files under each Application Component in eBRAP. Descriptions of each required file can be found under Full Application Submission Components:  
- Attachments  
- Key Personnel  
- Budget  
- Performance Sites  
**Tab 4 – Application and Budget Data:** Review and edit proposed project start date, proposed end date, and budget data pre-populated from the Budget Form. |

**Application Package Submission**

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<tr>
<th>Extramural Submissions</th>
<th>Intramural DoD Submissions</th>
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<tbody>
<tr>
<td>Submit package components to Grants.gov (<a href="https://www.grants.gov">https://www.grants.gov</a>). If either the Project Narrative or the budget fails eBRAP validation or if the Project Narrative or the budget need 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.</td>
<td>Submit package components to eBRAP (<a href="https://ebrap.org">https://ebrap.org</a>). <strong>Tab 5 – Submit/Request Approval Full Application:</strong> After all components are uploaded and prior to the full application submission deadline, enter your password in the space provided “Enter Your Password Here” and press the “Submit Full Application” button. eBRAP will notify your Resource Manager/Comptroller or equivalent Business Official by email to log into eBRAP to review and to approve prior to the application submission deadline.</td>
</tr>
<tr>
<td>Extramural Submissions</td>
<td>Intramural DoD Submissions</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>Application Verification Period</strong></td>
<td><strong>Application Verification Period</strong></td>
</tr>
<tr>
<td>The full application package submitted to Grants.gov may be viewed and modified in eBRAP until the end of the application verification period. During the application verification period, the full application package, <em>with the exception of the Project Narrative and Budget Form</em>, may be modified.</td>
<td>After eBRAP has processed the full application, the organizational Resource Manager/Comptroller or equivalent Business Official and PI will receive an email notification of this status and will be able to view and modify application components in eBRAP. During the application verification period, the full application package, <em>with the exception of the Project Narrative and Budget Form</em>, may be modified.</td>
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**Further Information**

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<th>Extramural Submissions</th>
<th>Intramural DoD Submissions</th>
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<tbody>
<tr>
<td>Refer to the General Application Instructions, Section III, for further information regarding Grants.gov requirements.</td>
<td>Refer to the General Application Instructions, Section IV, for further information regarding eBRAP requirements.</td>
</tr>
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</table>

_The organization’s Business Official or Authorized Organization Representative (or Resource Manager/Comptroller) should approve/verify the full application submission prior to the application verification deadline._

Application viewing, modification, and verification in eBRAP are strongly recommended, but not required. _The Project Narrative and Budget cannot be changed after the application submission deadline._ Prior to the full application deadline, a corrected or modified full application package may be submitted. Other application components may be changed until the end of the application verification period. After the end of the application verification period, the full application cannot be modified.

_Material submitted after the end of the application verification period, unless specifically requested by the Government, will not be forwarded for processing._

The full application package must be submitted using the unique eBRAP log number to avoid delays in application processing.

**II.D.2.b.ii. Full Application Submission Components:**

- **Extramural Applications Only** –

  _SF424 (R&R) Application for Federal Assistance Form:_ Refer to the General Application Instructions, Section III.A.1, for detailed information.
• Extramural and Intramural Applications –

Attachments:

*Each attachment to the full application components must be uploaded as an individual file in the format specified and in accordance with the formatting guidelines listed in the General Application Instructions, Appendix 4.*

For all attachments, ensure that the file names are consistent with the guidance. Attachments will be rejected if the file names are 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, there are file size limits that may apply in some circumstances. Individual attachments may not exceed 20 MB and the file size for the entire full application package may not exceed 200 MB.

- **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) 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. **Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated.**

- **Principal Investigator:** Describe the PI’s potential for a career at the forefront of lung cancer research, including qualifications and achievements that make the PI an ideal candidate for this award. Describe the PI’s career goals as a lung cancer researcher and/or clinician and how the proposed research experience will advance his/her career. Discuss the appropriateness of the level of effort of the PI for successful conduct of the proposed research.

- **Mentor:** Describe the qualifications of the mentor including record of research accomplishments, publications, patents, and funding in lung cancer. Describe the mentor’s track record for training early-career investigators. If the mentor and PI are located at different organizations, describe how appropriate direction and oversight will be accomplished.

- **Background:** Present the ideas and reasoning behind the proposed research; include relevant literature citations and preliminary data (if applicable) that led to the development of the proposed study. Any preliminary data provided should be from the laboratory of the PI, mentor, or member(s) of the collaborating team.

- **Hypothesis or Objective:** State the hypothesis to be tested or the objective to be reached.
– **Specific Aims:** Concisely explain the project’s specific aims. If this application is part of a larger study, present only tasks that this award would fund.

– **Research 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 animals studies are proposed, describe how they will be conducted in accordance with the ARRIVE guidelines ([https://www.elsevier.com/__data/promis_misc/622936arrive_guidelines.pdf](https://www.elsevier.com/__data/promis_misc/622936arrive_guidelines.pdf)). 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. Detail a statistical plan for the resulting outcomes. If applicable, include a complete power analysis to demonstrate that the sample size is appropriate to meet the objectives of the study.

  o **Attachment 2: Supporting Documentation.** Combine and upload as a single file named “Support.pdf.” Start each document on a new page. If documents are scanned to PDF, the lowest resolution (100 to 150 dpi) should be used. The Supporting Documentation attachment should not include additional information such as figures, tables, graphs, photographs, diagrams, chemical structures, or drawings. These items should be included in the Project Narrative. Any additional material viewed as an extension of the Project Narrative will be removed or may result in administrative withdrawal of the application.

*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: 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 Patents: Include a list of relevant publication URLs and/or patent abstracts. If publications are not publically 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, *support for 40% or more protected time for lung cancer research projects by the PI*, and other resources available for the project. Letters of support not requested in the Program Announcement, such as those from members of Congress, do not impact application review or funding decisions.

- Letters of Collaboration: 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.
  
  - Availability of and access to research resources (to include proprietary material for the purpose/duration of the proposed research), and/or
  
  - Availability of and access to appropriate populations (and/or access to available samples/data or databases), if applicable.
  
  - For applications that include an intramural (DoD) collaborator, include a letter from the collaborator’s Commander or Commanding Officer at the intramural organization that authorizes the collaborator’s involvement in the proposed research.

  
  - Intellectual and Material Property Plan (if applicable): Provide a plan for resolving intellectual and material property issues among participating organizations.
  
  - Commercialization Strategy (if applicable): Describe the commercialization plan. The plan should include intellectual property, market size, financial analysis, strengths and weaknesses, barriers to the market, competitors, and management team. Discuss the significance of this development effort, when it can be anticipated, and the potential commercial use for the technology being developed.

- Data and Research Resources Sharing Plan: Describe 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 2, Section K, 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.” The technical abstract is used by all reviewers. Abstracts of all funded research projects will
be posted publicly. **Do not include proprietary or confidential information.** Use only characters available on a standard QWERTY keyboard. Spell out all Greek letters, other non-English letters, and symbols. Graphics are not allowed.

Of particular importance, programmatic reviewers typically do not have access to the full application and therefore rely on the technical abstract for appropriate description of the project’s key aspects. Therefore, clarity and completeness within the space limits of the technical abstract are highly important. Technical abstracts should be written using the outline below.

- **Personnel:** Describe the PI’s career goals and his/her potential for a career at the forefront of lung cancer research. Describe the mentor’s background and experience in lung cancer research.

- **Career Development:** Describe how the award will provide the PI with the opportunity to advance an independent career at the forefront of lung cancer research.

- **Research:**
  - **Background:** Present the ideas and reasoning behind the proposed project.
  - **Area of Emphasis:** State the Area(s) of Emphasis that will be addressed.
  - **Objective/Hypothesis:** State the objective/hypothesis to be tested. Provide evidence or rationale that supports the objective/hypothesis.
  - **Specific Aims:** State the specific aims of this study.
  - **Study Design:** Briefly describe the study design including appropriate controls.
  - **Impact:** Summarize the potential impact of the proposed project toward the goal of eradicating deaths from lung cancer.
  - **Military Relevance:** Describe how the proposed project is relevant to military Service members, Veterans, and their families.

- **Attachment 4: Lay Abstract (one-page limit):** Upload as “LayAbs.pdf.” The lay abstract is used by all reviewers. Abstracts of all funded research projects will be posted publicly. **Do not include proprietary or confidential information.** Use only characters available on a standard QWERTY keyboard. Spell out all Greek letters, other non-English letters, and symbols. Graphics are not allowed.

**Do not duplicate the technical abstract.** Minimize the use of acronyms and abbreviations, where appropriate. The lay abstract is an important component of the application review process because it addresses issues of particular interest to the consumer community. Lay abstracts should be written using the outline below.
- 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.
  - State the LCRP Area(s) of Emphasis the project addresses.
- Describe the PI’s career goals in lung cancer research.
  - How will the award advance the PI’s career in lung cancer research?
  - 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 lung cancer research?
  - How is the project relevant to military Service members, Veterans, and their families?

○ **Attachment 5: Statement of Work (SOW) (three-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 Career Development Award mechanism, use the SOW format example titled “SOW Generic Format.” The SOW must be in PDF format prior to attaching.

  The SOW should include a list of major tasks that support the proposed specific aims, followed by a series of subtasks outlined related to the major tasks and milestones within the period of performance. The SOW should describe only the work for which funding is being requested by this application and, as applicable, should also:

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

  Indicate the number (and type, if applicable) of research subjects (animal or human) and/or human anatomical samples projected or required for each task and at each site. Refer to the General Application Instructions, Appendix 1, for additional information regarding regulatory requirements.
Briefly state the methods to be used.

For studies with prospective accrual of human subjects, indicate quarterly enrollment targets.

Identify cell line(s) and commercial or organizational source(s) to be used. If human anatomical substances (including cell lines) will be used, specify whether or not identifiable information is accessible to the research team by any means.

If applicable, indicate timelines required for regulatory approvals relevant to human subjects research (e.g., Investigational New Drug and Investigational Device Exemption applications) by the U.S. Food and Drug Administration or other Government agency.

  Describe how the proposed research is relevant to at least one of the LCRP Areas of Emphasis in a way that is consistent with the program’s goals. Articulate the project’s impact to both lung cancer research and to lung cancer patient care, even if clinical impact is not an immediate outcome. Describe how the proposed project, if successful, will lead to critical discoveries or major advancements and significantly accelerate progress toward eradicating deaths from lung cancer.

- Attachment 7: Career Development Plan (one-page limit): Upload as “CareerDev.pdf.”
  - Clearly describe and outline the individualized career development plan.
  - Highlight the unique features of this career development plan as it pertains specifically to lung cancer research.
  - Indicate specifically how the individualized career development plan will provide the PI with an opportunity to advance his/her independent career in lung cancer research.
  - Describe how the career development plan is supported by the research environment and mentorship, including a description of ongoing lung cancer research at the institution. Include information on collaborations with other investigators.

- Attachment 8: Letter from Mentor (two-page limit): Upload as “MentorLetter.pdf.” Provide a signed letter from the designated mentor indicating recommendation, support, and planned interactions with the PI for the proposed work. Include information on the mentor’s record of preparing early-career investigators for careers in lung cancer research.

- Attachment 9: Military Relevance Statement (one-page limit): Upload as “MilRelevance.pdf.” Describe how the proposed research is relevant to the healthcare needs and welfare of military Service members, Veterans, and their families in a way that is consistent with the program’s goals. If active duty military, military families, and/or 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 Veteran population). If applicable,
show how the proposed research project aligns with DoD and/or VA areas of research
interest.

- **Attachment 10: Letters Confirming Access to Target Military or VA Patient Population(s) or Human/Animal Anatomical Substances, Databases, if applicable:**
  Upload as “Access.pdf.” If applicable, provide a letter(s) of support, signed by the
  lowest ranking person with approval authority, for studies involving active duty military
  and/or Veteran populations, military and/or VA-controlled study materials, and military
  and/or VA databases.

- **Attachment 11: Eligibility Statement (one-page limit):** Upload as “Eligibility.pdf.”
  Use the Eligibility Statement form (available for download on the Full Announcement
  page in Grants.gov) signed by the Department Chair, Dean, or equivalent official
  verifying that the eligibility requirements will be met by the application submission
  deadline.

- **Attachment 12: DoD Military 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 DoD Military Budget Form, available for download on the eBRAP “Funding
  Opportunities & Forms” web page (https://ebrap.org/eBRAP/public/Program.htm),
  including a budget justification, for each military facility as instructed. The costs per
  year should be included on the Grants.gov Research and Related Budget form under
  subaward costs. Refer to the General Application Instructions, Section III.A.7, for
detailed information.

- **Extramural and Intramural Applications –**

  **Research & Related Senior/Key Person Profile (Expanded):** For extramural submissions
  (via Grants.gov), refer to the General Application Instructions, Section III.A.3, and for
  intramural submissions (via eBRAP), refer to the General Application Instructions,
  Section IV.A.2, for detailed information.

  - **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
    National Institutes of Health Biographical Sketch may also be used. All biographical
    sketches should be submitted in the portable document format (PDF) that is not editable.

  - **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.

**Research & Related Budget:** For extramural submissions (via Grants.gov), refer to the General Application Instructions, Section III.A.4, and for intramural submissions (via eBRAP), refer to the General Application Instructions, Section IV.A.3, 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.

**Project/Performance Site Location(s) Form:** For extramural submissions (via Grants.gov), refer to the General Application Instructions, Section III.A.5, and for intramural submissions (via eBRAP), refer to the General Application Instructions, Section IV.A.4, for detailed information.

- **Extramural Applications Only –**

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

  - **Extramural Subaward:** Complete the Research & Related Subaward Budget Form through Grants.gov. (Refer to the General Application Instructions, Section III.A.6, for detailed information.)

  - **Intramural DoD Collaborator(s):** Complete the DoD Military Budget Form and upload to Grants.gov as Attachment 12. (Refer to the General Application Instructions, Section III.A.7, for detailed information.) Intramural DoD Collaborator(s) costs per year should be included on the Grants.gov Research and Related Budget form under subaward costs.

**II.D.3. Dun and Bradstreet Universal Numbering System (DUNS) Number and System for Award Management (SAM)**

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. Verify the status of the applicant’s organization’s Entity registration in SAM well in advance of the application submission deadline. Allow 3 to 4 weeks to complete the entire SAM registration process. If an applicant has not fully complied with the requirements
by the time the Federal awarding agency is ready to make a Federal award, the Federal awarding agency may determine that the applicant is not qualified to receive a Federal award and use that determination as a basis for making a Federal award to another applicant. Refer to the General Application Instructions, Section III, for further information regarding Grants.gov requirements.

II.D.4. Submission Dates and Times

All submission dates and times are indicated in Section I, Overview of the Funding Opportunity. Pre-application and application submissions are required. The pre-application and application submission process should be started early to avoid missing deadlines. There are no grace periods. Failure to meet either of these deadlines will result in submission rejection.

Applicant Verification of Full Application 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 a submitted application. Following retrieval and processing of the full application, eBRAP will notify the organizational representatives and PI by email to log into eBRAP to review, modify, and verify the full application submission. eBRAP will validate retrieved files against the specific Program Announcement 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. If either the Project Narrative or the budget fails eBRAP validation or needs to be modified, an updated full application package must be submitted prior to the application submission deadline. The Project Narrative and Budget Form cannot be changed after the application submission deadline.

II.D.5. Funding Restrictions

The maximum period of performance is 2 years.

The anticipated direct costs budgeted for the entire period of performance will not exceed $250,000. If indirect cost rates have been negotiated, indirect costs are to be budgeted in accordance with the organization’s negotiated rate. No budget will be approved by the Government exceeding $250,000 direct costs or using an indirect cost rate exceeding the organization’s negotiated rate.

All direct and indirect costs of any subaward or contract 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 2 year.

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

- Salary for the PI
- Research supplies
- Clinical research costs (other than costs for clinical trials, which are not allowed)
- Publication costs
- Support for multidisciplinary collaborations, including travel
- Travel costs for one investigator to travel to one scientific/technical meeting per year

Must not be requested for:
- Clinical trial costs
- Mentor salary

Extramural (non-Federal) awards will consist solely of assistance agreements (Cooperative Agreements and Grants). For extramural awards with an intragovernmental component, direct transfer of funds from an extramural award recipient to a DoD or other Federal agency is not allowed except under very limited circumstances. Funding to intramural DoD and other Federal agencies will be managed through a direct fund transfer. Intragovernmental only funding to intramural DoD and other Federal agencies will be managed through a direct fund transfer. Intramural applicants are responsible for coordinating through their agency’s procedures the use of contractual or assistance funding awards or other appropriate agreements to support extramural collaborators.

Refer to the General Application Instructions, Section III.A.4, for budget regulations and instructions for the Research & Related Budget. *For Federal agencies or organizations collaborating with Federal agencies, budget restrictions apply as are noted in the General Application Instructions, Section III.A.4.*

*The CDMRP expects to allot approximately $1.2M of the $12M FY17 LCRP appropriation to fund approximately 3 Career Development Award applications, depending on the quality and number of applications received. Funding of applications received in response to this Program Announcement is contingent upon the availability of Federal funds for this program.*

II.D.6. Other Submission Requirements

Refer to the General Application Instructions, Appendix 4, for detailed formatting guidelines.

II.E. Application Review Information

II.E.1. Criteria

II.E.1.a. Peer Review

To determine technical merit, all applications will be evaluated according to the following scored criteria, which are of equal importance:
• **Principal Investigator**
  
  ○ How well the PI’s career goals demonstrate a strong personal commitment to advancing an independent career at the forefront of lung cancer research.
  
  ○ To what degree the PI’s record of accomplishments and letters of support demonstrates his/her potential for advancement as a productive, independent investigator in lung cancer research.

• **Mentor**
  
  ○ How well the mentor’s background, qualifications, lung cancer research program, committed resources, and available time support the PI’s career advancement needs.
  
  ○ Whether the designated mentor is an independent, established lung cancer researcher as demonstrated by publications, patents, and/or funding history.
  
  ○ To what degree the mentor’s track record in preparing early-career investigators indicates the potential for successful mentorship and advancement of the PI’s career in lung cancer research.

• **Career Development Plan**
  
  ○ How well the PI has outlined a detailed, individualized career development plan that will effectively advance the PI’s independent career as a lung cancer researcher.
  
  ○ Whether the proposed plan (such as workshops, seminars, etc.) is appropriate and will prepare the PI for a successful independent career at the forefront of lung cancer research.
  
  ○ To what degree the mentor will be involved in guidance and intellectual collaboration and support of the PI.

• **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 (if applicable), and logical reasoning.
  
  ○ How well the hypotheses or objectives, aims, experimental design, methods, and analyses (and if applicable, the statistical plan, rationale for the statistical methodology, and power analysis) are developed.
  
  ○ If animal studies are included, how well they are designed to achieve reproducible and rigorous results, including the choice of model and the endpoints/outcomes to be measured.
○ If human subjects or human anatomical samples will be used, how well the plan for the recruitment of subjects or the acquisition of samples is justified and appropriate to accomplish the proposed work.

○ Whether the research project is appropriate for advancing the PI’s career to the forefront of lung cancer research and/or patient care.

○ Appropriateness of the levels of effort by the PI, mentor, and other key personnel to ensure the success of this research effort.

○ How well the PI acknowledges potential problems and addresses alternative approaches.

• Impact

○ How well the proposed research addresses at least one of the LCRP Areas of Emphasis.

○ To what extent the research, if successful, will lead to critical discoveries or major advancements in lung cancer research and/or patient care, including the potential to accelerate progress toward eradicating deaths from lung cancer.

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

• Environment

○ To what degree the scientific environment is appropriate for the proposed research.

○ How well the research requirements are supported by the availability of and accessibility to facilities and resources (including collaborative arrangements).

○ To what degree the quality and extent of organizational support are appropriate.

○ Whether there is a clear organizational commitment to allow protection of at least 40% of the PI’s time for lung cancer research.

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

• Budget

○ Whether the budget is appropriate for the proposed research and within the limitations of this Program Announcement.

• Application Presentation

○ To what extent the writing, clarity, and presentation of the application components influence the review.
II.E.1.b. Programmatic Review

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

- Ratings and evaluations of the peer reviewers

- Relevance to the mission of the DHP and FY17 LCRP, as evidenced by the following:
  - Adherence to the intent of the award mechanism
  - Program portfolio composition
  - Relative impact and military relevance

II.E.2. Application Review and Selection Process

All applications are evaluated by scientists, clinicians, and consumers in a two-tier review process. The first tier is peer review of applications against established criteria for determining technical merit. Each application is evaluated for its own merit, independent of other applications. The second tier is a programmatic review that makes recommendations for funding to the Commanding General, USAMRMC, on behalf of the DHA and the OASD(HA), based on technical merit, the relevance to the mission of the DHP and LCRP, the specific intent of the award mechanism, and to other specified evaluation criteria in the Program Announcement. Programmatic review is a comparison-based process in which applications with scientific and technical merit compete in a common pool. The highest-scoring applications from the first tier of review are not automatically recommended for funding. Funding recommendations depend on various factors as described in Section II.E.1.b, Programmatic Review. 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 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 18 USC 1905.

II.E.3. Integrity and Performance Information

Prior to making an assistance agreement award where the Federal share is expected to exceed the simplified acquisition threshold (currently $150,000) over the period of performance, the Federal
The Federal awarding agency will consider any comments by the applicant, in addition to other information in the designated integrity and performance system, in making a judgment about the applicant’s integrity, business ethics and record of performance under Federal awards when determining a recipient’s qualification prior to award, according to the qualification standards of the Department of Defense Grant and Agreement Regulations (DoDGAR), Section 22.415.

II.E.4. Anticipated Announcement and Federal Award Dates

All application review dates and times are indicated in Section I, Overview of the Funding Opportunity.

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.

II.F. Federal Award Administration Information

II.F.1. Federal Award Notices

Awards will be made no later than September 30, 2018. Refer to the General Application Instructions, Appendix 2, for additional award administration information.

Awards are made to organizations, not to individual PIs. The types of awards made under the Program Announcement will be assistance agreements (grants or cooperative agreements). The level of involvement on the part of DoD during project performance is the key factor in determining whether to award a grant or cooperative agreement.

**Extramural Organizations:** An assistance agreement (grant or cooperative agreement) is appropriate when the Federal Government transfers a “thing of value,” to a “state, local government,” or “other recipient,” to carry out a public purpose of support or stimulation authorized by a law of the United States, instead of acquiring property or service for the direct benefit and use of the U.S. Government. An assistance agreement can take the form of a grant or cooperative agreement. If “no substantial involvement” on the part of the funding agency is anticipated, a grant award will be made (31 USC 6304). Conversely, if substantial involvement on the part of the funding agency is anticipated, a cooperative agreement will be made (31 USC 6305). Substantial involvement may include collaboration, participation, or intervention in the research to be performed under the award. The award type, along with the start date, will be determined during the negotiation process.
After email notification of application review results through the eBRAP, and if selected for funding, a representative from the USAMRAA will contact the business official authorized to negotiate on behalf of the PI’s organization.

Only an appointed USAMRAA Grants Officer may obligate the Government to the expenditure of funds. No commitment on the part of the Government should be inferred from discussions with any other individual. The award document signed by the Grants Officer is the official authorizing documents.

**Intramural Organizations:** Awards to Federal Government organizations (to include intramural DoD organizations) will be executed through the Military Interdepartmental Purchase Request (MIPR) or Funding Authorization Document (FAD) process. Transfer of funds is contingent upon appropriate safety and administrative approvals. Intramural applicants and collaborators are reminded to coordinate receipt and commitment of funds through their respective resource managers (RM).

After email notification of application review results through the eBRAP, and if selected for funding, a representative from the CDMRP will contact the business official authorized to negotiate on behalf of the PI’s organization.

**II.F.1.a. 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. An organizational transfer of an award will not be allowed in the last year of the (original) period of performance or any extension thereof.

Refer to the General Application Instructions, Appendix 2, Section B, for general information on organization or PI changes.

**II.F.2. Administrative and National Policy Requirements**

Applicable requirements in the DoDGAR found in 32 CFR, Chapter 1, Subchapter C, and 2 CFR, Chapter XI, apply to grants and cooperative agreements resulting from this Program Announcement.

Refer to the General Application Instructions, Appendix 2, for general information regarding administrative requirements.

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

Refer to full text of the [USAMRAA General Research Terms and Conditions for Institutions of Higher Education, Hospitals, and Non-Profit Organizations](https://www.usamraa.army.mil/) and the [USAMRAA General Research Terms and Conditions with For-Profit Organizations](https://www.usamraa.army.mil/) for further information.
II.F.3. Reporting

Refer to the General Application Instructions, Appendix 2, Section A, for general information on reporting requirements.

In addition to written progress reports, Annual Award Charts will be required. For the LCRP Career Development Award mechanism, use the format example titled, “Generic Award Charts,” available on the eBRAP “Funding Opportunities & Forms” web page (https://ebrap.org/eBRAP/public/Program.htm).

Awards resulting from this Program Announcement will incorporate additional reporting requirements related to recipient integrity and performance matters. Recipient organizations that have Federal contract, grant, and cooperative agreement awards with a cumulative total value greater than $10,000,000 are required to provide information to FAPIIS about certain civil, criminal, and administrative proceedings that reached final disposition within the most recent 5-year period and that were connected with performance of a Federal award. Recipients are required to disclose semiannually information about criminal, civil, and administrative proceedings as specified in the applicable Terms and Conditions. The applicable Terms and Conditions for institutions of higher education, hospitals, and nonprofit organizations is available in OAR Article I, Section B, in the July 2016 R&D General Terms and Conditions. The applicable Terms and Conditions for for-profit organizations is available in Section 34 of the February 2017 USAMRAA General Research Terms and Conditions with For-Profit Organizations.

II.G. Federal Awarding Agency Contacts

II.G.1. CDMRP Help Desk

Questions related to Program Announcement content or submission requirements as well as questions related to the pre-application or intramural application submission 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

II.G.2. Grants.gov Contact Center

Questions related to extramural 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; International 1-606-545-5035
    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 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.

II.H. Other Information

II.H.1. Program Announcement and General Application Instructions Versions

Questions related to this Program Announcement should refer to the Program name, the Program Announcement name, and the Program Announcement version code 20170418d. The Program Announcement numeric version code will match the General Applications Instructions version code 20170418.

II.H.2. Administrative Actions

After receipt of applications, the following administrative actions may occur:

II.H.2.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.

II.H.2.b. Modification

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

II.H.2.c. Withdrawal

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

- An FY17 LCRP Programmatic Panel 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 FY17 LCRP Programmatic Panel members can be found at http://cdmrp.army.mil/lcrp/panels/panels17.
• The application fails to conform to this Program Announcement 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).

• To preserve the integrity of its peer and programmatic review processes, the CDMRP discourages inclusion of any employee of its review contractors having any role in the preparation, research or other duties for submitted applications. For FY17, the identities of the peer review contractor and the programmatic review contractor may be found at the CDMRP website (http://cdmrp.army.mil/about/2tierRevProcess). Applications that include names of personnel from either of these companies will be administratively withdrawn unless plans to manage COIs are provided and deemed appropriate by the Grants Officer. Refer to the General Application Instructions, Appendix 3, 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.

• Applications from extramural organizations, including non-DoD Federal agencies, received through eBRAP may be withdrawn.

• Applications submitted by an intramural DoD organization may be withdrawn if the intramural organization cannot coordinate the use of contractual, assistance, or other appropriate agreements to provide funds to extramural collaborators.

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

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

• If the PI does not meet the specified eligibility criteria, the application will be withdrawn.

• An application that does not address at least one of the LCRP Areas of Emphasis will be withdrawn.

• A pre-application or application that proposes only mesothelioma research will be withdrawn.

• Applications may be administratively withdrawn from further consideration if the applicant cannot demonstrate access to the relevant study population or resources.
II.H.2.d. Withhold

Applications that appear to involve research misconduct will be administratively withheld from further consideration pending organizational investigation. The organization will be required to provide the findings of the investigation to the USAMRAA Grants Officer for a determination of the final disposition of the application.
### II.H.3. Application Submission Checklist

<table>
<thead>
<tr>
<th>Application Components</th>
<th>Action</th>
<th>Completed</th>
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<tbody>
<tr>
<td>SF424 (R&amp;R) Application for Federal Assistance (Extramural submissions only)</td>
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</tr>
<tr>
<td>Summary (Tab 1) and Application Contacts (Tab 2) (Intramural submissions only)</td>
<td>Complete these tabs as instructed.</td>
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</tr>
<tr>
<td>Attachments</td>
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<tr>
<td>Project Narrative: Upload as Attachment 1 with file name “ProjectNarrative.pdf.”</td>
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<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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<td>Lay Abstract: Upload as Attachment 4 with file name “LayAbs.pdf.”</td>
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<td>Statement of Work: Upload as Attachment 5 with file name “SOW.pdf.”</td>
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<td>Impact Statement: Upload as Attachment 6 with file name “Impact.pdf.”</td>
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<td>Career Development Plan: Upload as Attachment 7 with file name “CareerDev.pdf.”</td>
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<td>Eligibility Statement: Upload as Attachment 11 with file name “Eligibility.pdf.”</td>
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<tr>
<td>DoD Military Budget Form(s): Upload as Attachment 12 with file name “MFBudget.pdf,” if applicable.</td>
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<td>Application Components</td>
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<td>Research &amp; Related Senior/Key Person Profile (Expanded)</td>
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<td></td>
<td>Attach PI Previous/Current/Pending Support (Support_LastName.pdf) to the appropriate field.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Attach Biographical Sketch (Biosketch_LastName.pdf) for each senior/key person to the appropriate field.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Attach Previous/Current/Pending (Support_LastName.pdf) for each senior/key person to the appropriate field.</td>
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<tr>
<td>Research &amp; Related Budget (Extramural submissions only)</td>
<td>Complete as instructed. Attach Budget Justification (BudgetJustification.pdf) to the appropriate field.</td>
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<tr>
<td>Budget (Intramural submissions only)</td>
<td>Complete the DoD Military Budget Form and justification.</td>
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<tr>
<td>Project/Performance Site Location(s) Form</td>
<td>Complete form as instructed.</td>
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<tr>
<td>R&amp;R Subaward Budget Attachment(s) Form, if applicable</td>
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**APPENDIX 1: ACRONYM LIST**

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<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACURO</td>
<td>Animal Care and Use Review Office</td>
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<tr>
<td>ARRIVE</td>
<td>Animal Research: Reporting <em>In Vivo</em> Experiments</td>
</tr>
<tr>
<td>CDA</td>
<td>Career Development Award</td>
</tr>
<tr>
<td>CDMRP</td>
<td>Congressionally Directed Medical Research Programs</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>DHA</td>
<td>Defense Health Agency</td>
</tr>
<tr>
<td>DHP</td>
<td>Defense Health Program</td>
</tr>
<tr>
<td>DoD</td>
<td>Department of Defense</td>
</tr>
<tr>
<td>DoDGAR</td>
<td>Department of Defense Grant and Agreement Regulations</td>
</tr>
<tr>
<td>DUNS</td>
<td>Data Universal Numbering System</td>
</tr>
<tr>
<td>eBRAP</td>
<td>Electronic Biomedical Research Application Portal</td>
</tr>
<tr>
<td>EC</td>
<td>Ethics Committee</td>
</tr>
<tr>
<td>ET</td>
<td>Eastern Time</td>
</tr>
<tr>
<td>FAPIIS</td>
<td>Federal Awardee Performance and Integrity Information System</td>
</tr>
<tr>
<td>FY</td>
<td>Fiscal Year</td>
</tr>
<tr>
<td>HRPO</td>
<td>Human Research Protection Office</td>
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<tr>
<td>IACUC</td>
<td>Institutional Animal Care and Use Committee</td>
</tr>
<tr>
<td>IRB</td>
<td>Institutional Review Board</td>
</tr>
<tr>
<td>LCRP</td>
<td>Lung Cancer Research Program</td>
</tr>
<tr>
<td>LOI</td>
<td>Letter of Intent</td>
</tr>
<tr>
<td>M</td>
<td>Million</td>
</tr>
<tr>
<td>OASD(HA)</td>
<td>Office of the Assistant Secretary of Defense for Health Affairs</td>
</tr>
<tr>
<td>OMB</td>
<td>Office of Management and Budget</td>
</tr>
<tr>
<td>ORP</td>
<td>Office of Research Protections</td>
</tr>
<tr>
<td>PI</td>
<td>Principal Investigator</td>
</tr>
<tr>
<td>RDT&amp;E</td>
<td>Research, Development, Test, and Evaluation</td>
</tr>
<tr>
<td>RM</td>
<td>Resource Manager</td>
</tr>
<tr>
<td>SAM</td>
<td>System for Award Management</td>
</tr>
<tr>
<td>SOW</td>
<td>Statement of Work</td>
</tr>
<tr>
<td>USAMRAA</td>
<td>U.S. Army Medical Research Acquisition Activity</td>
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<tr>
<td>USAMRMC</td>
<td>U.S. Army Medical Research and Materiel Command</td>
</tr>
<tr>
<td>USC</td>
<td>United States Code</td>
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<tr>
<td>VA</td>
<td>Department of Veterans Affairs</td>
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