I. OVERVIEW OF THE FUNDING OPPORTUNITY

Program Announcement for the Department of Defense
Defense Health Program
Congressionally Directed Medical Research Programs
Autism Research Program
Idea Development Award

Announcement Type: Initial

Funding Opportunity Number: W81XWH-18-ARP-IDA
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), July 5, 2018
- Invitation to Submit an Application: August 10, 2018
- Application Submission Deadline: 11:59 p.m. ET, October 4, 2018
- End of Application Verification Period: 5:00 p.m. ET, October 8, 2018
- Peer Review: November 2018
- Programmatic Review: January 2019

This Program Announcement must be read in conjunction with the General Application Instructions, version 20180329. 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

*New for 2018:* Application submission by extramural organizations through Grants.gov requires use of the Workspace interface, which separates the application package into individual forms. Applicants must create a Workspace in Grants.gov, complete the required forms, and submit their application Workspace package.

II.A. Program Description

Applications to the Fiscal Year 2018 (FY18) Autism Research Program (ARP) 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 ARP was initiated in 2007 to provide support for research of exceptional scientific merit and innovation with high impact that focuses on autism spectrum disorder (ASD). Appropriations for the ARP from FY07 through FY17 totaled $74.4 million (M). The FY18 appropriation is $7.5M.

The ARP’s vision is to improve the lives of individuals with ASD now by promoting innovative research that advances the understanding of ASD and leads to improved outcomes.

II.A.1. FY18 ARP Idea Development Award Areas of Interest

The FY18 ARP Idea Development Award seeks applications from all areas of basic and preclinical research and *strongly encourages* applications that address the critical needs of the ASD community in one or more of the following areas:

- Assessment of novel therapeutics using valid preclinical models
- Environmental risk factors
- Mechanisms of heterogeneous clinical expression of ASD
- Mechanisms underlying conditions co-occurring with ASD (e.g., sleep disturbances, gastrointestinal issues, inflammation, aggression, depression, anxiety, attention deficit, seizures)
- Factors promoting success in key transitions to independence for individuals living with ASD
- Development of healthcare provider-focused training or tools to improve healthcare delivery for individuals with ASD across the lifespan and the continuum of care (i.e., primary care, urgent/emergent care, and disaster relief)
• Improve diagnosis across the lifespan
• Cultural and socioeconomic factors in treatment efficacy, delivery, and access to services

II.A.2. Award History

The ARP Idea Development Award mechanism was first offered in FY07. Since then, 492 Idea Development Award applications have been received, and 59 have been recommended for funding.

The proposed research must be relevant to active duty Service members, Veterans, military beneficiaries, and/or the American public.

II.B. Award Information

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 the Department of Defense (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) and the award will identify the specific substantial involvement. 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.

The ARP Idea Development Award supports the development of innovative, high-risk/high-reward research that could lead to critical discoveries or major advancements that will accelerate progress in improving outcomes for individuals with ASD. This award mechanism is designed to support innovative ideas with the potential to yield impactful data and new avenues of investigation.

The anticipated direct costs budgeted for the entire period of performance for an FY18 ARP Idea Development Award will not exceed $500,000. Refer to Section II.D.5, Funding Restrictions, for detailed funding information.

Important aspects of the FY18 ARP Idea Development Award are as follows:

• Impact: The proposed research is expected to make an important and original contribution to advancing the understanding of ASD and lead ultimately to improved outcomes for
individuals with ASD. The project’s impact on both ASD research and patient care should be articulated, even if clinical impact is not an immediate outcome. A statistical plan is an important aspect of the FY18 ARP Idea Development Award to demonstrate the significance of any research outcomes or findings.

- **Innovation:** Research deemed innovative may represent a new paradigm, challenge existing paradigms, look at existing problems from new perspectives, or exhibit other highly creative qualities. Research may be innovative in study concept, research methods or technology, or adaptations of existing methods or technologies. Research that represents an incremental advance on previously published work is not considered innovative.

- **Personnel:** Personnel are considered a crucial element of the FY18 ARP Idea Development Award. The study team should have experience in ASD research. A biostatistician should be included in the study team.

- **Research must be based on preliminary data:** Although the proposed research must have direct relevance to ASD, the required preliminary data, which may include unpublished results from the laboratory of the PI(s), research team, or collaborators named on the application, may be from outside the ASD research field. Research should also be based on a sound scientific rationale that is established through logical reasoning and critical review and analysis of the literature.

**Partnering PI Option:** The FY18 ARP supports collaborative research to bring a new perspective to ASD research and/or facilitate progress in the field by combined efforts. Therefore, the ARP Idea Development Award mechanism includes the Partnering PI Option, which is structured so that two investigators, each of whom will be designated as a PI and receive a separate award, will work synergistically on a single project. One PI will be identified as the Initiating PI and will be responsible for the majority of the administrative tasks associated with application submission. The other PI will be identified as a Partnering PI. **Both investigators should collaborate to develop a synergistic project addressing a central problem in ASD or one or more of the FY18 ARP Idea Development Award Areas of Interest. Applications submitted by a mentor and trainee as Initiating PI and Partnering PI do not meet the intent of the Partnering PI Option.** Multidisciplinary and multi-organizational projects are allowed.

Initiating and Partnering PIs each have different submission requirements, as described throughout Section II, Detailed Information About the Funding Opportunity; however, both PIs should contribute significantly to the development of the proposed research project, including the Project Narrative, Statement of Work, and other required components. It should be clear that both investigators have had an equal level of intellectual input and effort in developing the application. If recommended for funding, each PI will be named to an individual award within the recipient organization.

**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.** Additional time for regulatory reviews may be needed for clinical studies taking place in international settings. 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 as a stand-alone study. Submission to HRPO of protocols involving more than the scope of work in the DoD-funded award will require HRPO review of the entire protocol (DoD and non-DoD funded). DoD human subjects protection requirements may be applied to non-DoD funded work and necessitate extensive revisions to the protocol. Refer to the General Application Instructions, Appendix 1, and the Human Subject Resource Document available on the electronic Biomedical Research Application Portal (eBRAP) “Funding Opportunities & Forms” web page (https://ebrap.org/eBRAP/public/Program.htm) for additional information.

**Clinical trials are not allowed under this award mechanism.** 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.

**PIs seeking funding for a clinical trial should utilize the FY18 ARP Clinical Trial Award (Funding Opportunity Number: W81XWH-18-ARP-CTA).** Similarly, **PIs seeking funding for early phase, proof-of-concept studies using human subjects should utilize the FY18 ARP Clinical Translational Research Award (Funding Opportunity Number: W81XWH-18-ARP-CTRA).**

**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.

**Rigor of Experimental Design:** All projects should adhere to accepted standards for rigorous study design and reporting to maximize the reproducibility and translational potential of preclinical research. Core standards are described in Landis, S.C., et al., A call for transparent reporting to optimize the predictive value of preclinical research, *Nature* 2012, 490:187-191
While these standards were written for preclinical studies, the basic principles of randomization, blinding, sample-size estimation, and data handling derive from well-established best practices in research and should be applied consistently across basic and translational 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.elsevier.com/__data/promis_misc/622936arrive_guidelines.pdf.

Investigators are encouraged to submit their data to the National Database for Autism Research (NDAR), a secure bioinformatics platform for data sharing of ASD-related information, supported by the National Institutes of Health (NIH). For more information, consult the NDAR website at http://ndar.nih.gov.

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, 2019. 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 academic institutions, biotechnology companies, foundations, Government, and research institutes.

Intramural DoD Organization: A DoD laboratory, DoD military treatment facility, and/or DoD activity embedded within a civilian medical center.

Note: Applications from an intramural DoD organization or from an extramural 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** (Single, Initiating, or Partnering)

Investigators (both Initiating and Partnering, as applicable) at or above the level of Assistant Professor (or equivalent) are eligible to submit applications.

An eligible Principal Investigator (PI), 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/](http://orcid.org/).

**II.C.2. Cost Sharing**

Cost sharing/matching is not an eligibility requirement.

**II.C.3. Other**

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

There are no limitations on the number of applications for which an investigator may be named as a PI, Initiating PI, or Partnering 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 an organization to Grants.gov.

*Intramural DoD Submission* is defined as an application submitted by a DoD organization to eBRAP.

**II.D.1. Address to Request Application Package**

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.

**Extramural Submissions:** Pre-application content and forms must be accessed and submitted at eBRAP.org. Full application packages must be accessed and submitted at Grants.gov.

**Intramural DoD Submissions:** Pre-application content and forms and full application packages must be accessed and submitted 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/).

**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 a Grants.gov Workspace. 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. Applications from extramural organizations, including non-DoD Federal organizations, received through eBRAP will be withdrawn. See definitions in Section II.C.1, Eligible Applicants.

**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.

**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 full application submission process. Inconsistencies may delay
application processing and limit or negate the ability to view, modify, and verify the application in eBRAP. If any changes need to be made, the applicant should contact the CDMRP Help Desk at help@eBRAP.org or 301-682-5507 prior to the application submission deadline.

**Partnering PI Option:** The Initiating PI must complete the pre-application submission process and submit the contact information for each Partnering PI. Each Partnering PI will then be notified of the pre-application submission separately by email. *Each Partnering PI must follow the link in the notification email in order to associate his/her full application package with that of the Initiating PI. After following the link, each Partnering PI must verify his/her contact information, organization, and designation as an extramural or intramural submission within eBRAP.* If not previously registered, the Partnering PI must register in eBRAP. A new pre-application based on this research project should not be initiated by the Partnering PI. Do not delay completing these steps. If they are not completed, the Partnering PI(s) will not be able to view and modify his/her application during the verification period in eBRAP. If these steps are not completed, intramural partner(s) will not be able to submit the Partnering PI required full application package components to eBRAP.

**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 is required 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 will delay 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 to request a change in designation.

All pre-application components must be submitted by the Initiating PI through eBRAP (https://eBRAP.org/). Because the invitation to submit an application is based on the contents of the pre-application, investigators should not change the title or research objectives after the pre-application is submitted.

PIs 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.

A change in PI or organization after submission of the pre-application may be allowed after review of a submitted written appeal (contact the CDMRP Help Desk at help@eBRAP.org or 301-682-5507) and at the discretion of the USAMRAA Grants Officer.

PIs with an ORCID identifier should enter that information in the appropriate field in the “My Profile” tab in the “Account Information” section of eBRAP.
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**

  Submission of application information includes assignment of primary and secondary research classification codes, which may be found at [https://ebrap.org/eBRAP/public/Program.htm](https://ebrap.org/eBRAP/public/Program.htm). Note that the codes have recently been revised. Applicants are strongly encouraged to review and confirm the codes prior to making their selection.

- **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.

  FY18 ARP 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.

  The Initiating PI must enter the contact information for each Partnering PI in the Partnering PI section.

  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 FY18, 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](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**

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**

  *Note: Upload documents 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.*

  ○ **Preproposiiton Narrative (two-page limit):** The Preproposal Narrative page limit applies to text and non-text elements (e.g., figures, tables, graphs, photographs, diagrams, chemical structures, drawings) used to describe the project. Inclusion of URLs that provide additional information to expand the Preproposal Narrative and could confer an unfair competitive advantage is prohibited and may result in administrative withdrawal of the pre-application.

  The Preproposal Narrative should include the following:

  - **Research Idea:** State the hypothesis to be tested or the objective to be reached. State the FY18 ARP Idea Development Award Area(s) of Interest that will be addressed (if applicable). Detail the ideas and reasoning on which the proposed project is based and how the research addresses a critical problem or question in ASD. Concisely state the specific aims and provide a brief overview of the study design. *This award cannot be used to conduct clinical trials or proof-of-concept studies on human subjects.*

  - **Impact:** Describe the potential impact of this study on the outcomes of individuals with ASD, their families, and/or the understanding of ASD.

  - **Innovation:** Describe how the proposed project is innovative and how the research represents more than an incremental advance on published data.

  - **Personnel:** Clearly describe the ASD expertise of the proposed research team and how this will factor into the team’s ability to successfully complete the project.

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

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

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

- Key Personnel Biographical Sketches (five-page limit per individual): All biographical sketches should be uploaded as a single combined file. Biographical sketches should be used to demonstrate background and expertise through education, positions, publications, and previous work accomplished.

- **Tab 6 – Submit Pre-Application**

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

**Pre-Application Screening**

- **Pre-Application Screening Criteria**

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

  - **Research Idea:** How well the proposed project addresses the intent of the award mechanism and the vision of the ARP. Whether the proposed research addresses one or more of the FY18 ARP IDA Areas of Interest or a central problem or issue in ASD. How well the rationale, study design, and specific aims support the project’s objective. To what extent the research can be accomplished with the defined study population, if applicable.

  - **Impact:** What potential impact these studies will have on the outcomes of individuals with ASD, their families, and/or the understanding of ASD.

  - **Innovation:** To what extent the research is innovative and represents more than an incremental advance on published data.

  - **Personnel:** To what degree the PI(s) and research team’s backgrounds and ASD-related expertise are appropriate to successfully carry out the proposed research project.

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

  Following the pre-application screening, PIs (Initiating PIs for the Partnering PI Option) will be notified as to whether or not they are invited to submit applications; however, they will not receive feedback (e.g., a critique of strengths and weaknesses) on their pre-application. The estimated timeframe for notification of invitation to submit an application is indicated in [Section I, Overview of the Funding Opportunity](#). Invitations to submit a full application are based on the Pre-Application Screening Criteria listed above.
II.D.2.b. Step 2: Full Application Submission Content

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

*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 ([http://www.grants.gov/](http://www.grants.gov/)) for extramural organizations or through eBRAP ([https://ebrap.org/](https://ebrap.org/)) for intramural organizations. See Table 1 below for more specific guidelines.

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

Extramural organizations must submit full applications through Grants.gov. Applicants must create a Grants.gov Workspace for submission, which allows the application components to be completed online and routed through the applicant organization for review prior to submission. Applicants may choose to download and save individual PDF forms rather than filling out webforms in the Workspace. A compatible version of Adobe Reader **must** be used to view, complete, and submit an application package consisting of PDF forms. If more than one person is entering text into an application package, the *same version* of Adobe Reader software should be used by each person. Check the version number of the Adobe software on each user’s computer to make sure the versions match. Using different versions of Adobe Reader may cause submission and/or save errors – even if each version is individually compatible with Grants.gov. Refer to the General Application Instructions, Section III, and the “Apply For Grants” page of Grants.gov ([https://www.grants.gov/web/grants/applicants/apply-for-grants.html](https://www.grants.gov/web/grants/applicants/apply-for-grants.html)) for further information about the Grants.gov Workspace submission process. Submissions of extramural applications through eBRAP may be withdrawn.

**Table 1. Full Application Submission Guidelines**

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<th>Extramural Submissions</th>
<th>Intramural DoD Submissions</th>
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<td>Download application package components for W81XWH-18-ARP-IDA from Grants.gov (<a href="http://www.grants.gov">http://www.grants.gov</a>) and create a Grants.gov Workspace. The Workspace allows online completion of the application components and routing of the application package through the applicant organization for review prior to submission.</td>
<td>Download application package components for W81XWH-18-ARP-IDA from eBRAP (<a href="https://ebrap.org/">https://ebrap.org/</a>).</td>
</tr>
<tr>
<td>Extramural Submissions</td>
<td>Intramural DoD Submissions</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td><strong>Full Application Package Components</strong></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>
| SF424 (R&R) Application for Federal Assistance Form: Refer to the General Application Instructions, Section III.A.1, for detailed information. | Descriptions of each required file can be found under Full Application Submission Components:  
- Attachments  
- Research & Related Personal Data  
- 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** | **Submit package components to eBRAP (https://ebrap.org).** **Tab 5 – Submit/Request Approval Full Application:** After all components are uploaded and prior to the full application submission deadline, enter your password in the space provided next to “Enter Your Password Here” and press the “Submit Full Application” button. eBRAP will notify your Resource Manager/Comptroller/Task Area Manager or equivalent Business Official by email. |

**Create a Grants.gov Workspace.**  
Add participants (investigators and Business Officials) to the Workspace, complete all required forms, and check for errors before submission.  
**Submit a Grants.gov Workspace Package.**  
An application may be submitted through Workspace by clicking the “Sign and Submit” button on the “Manage Workspace” page, under the “Forms” tab. Grants.gov recommends submission of the application package at least 24-48 hours prior to the close date to allow time to correct any potential technical issues that may disrupt the application submission.  
**Note:** If either the Project Narrative or the budget fails eBRAP validation or if the Project Narrative or the budget 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.
<table>
<thead>
<tr>
<th>Extramural Submissions</th>
<th>Intramural DoD Submissions</th>
</tr>
</thead>
<tbody>
<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/Task Area Manager or equivalent Business Official and PI(s) will receive 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. Your Resource Manager/Comptroller/Task Area Manager or equivalent Business Official should log into eBRAP to review and to approve prior to the application verification deadline.</td>
</tr>
</tbody>
</table>

**Further Information**

<table>
<thead>
<tr>
<th>Tracking a Grants.gov Workspace Package.</th>
<th>Refer to the General Application Instructions, Section IV, for further information regarding eBRAP requirements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>After successfully submitting a Workspace package, a Grants.gov Tracking Number is automatically assigned to the package. The number will be listed on the “Confirmation” page that is generated after submission. Refer to the General Application Instructions, Section III, for further information regarding Grants.gov requirements.</td>
<td></td>
</tr>
</tbody>
</table>

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. Verify that subaward budget(s) and budget justification forms are present in eBRAP during the application verification period. If these components are missing, upload them to eBRAP before 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.*

**Partnering PI Option:** The CDMRP requires separate full application package submissions for the Initiating PI and each Partnering PI, even if the PIs are located within the same organization. Initiating and Partnering PIs will each be assigned a unique eBRAP log number. Each full application package must be submitted using the unique eBRAP log number. *Note: All*
associated applications (Initiating and each Partnering PI’s) must be submitted by the full application submission deadline.

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 have 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.

  - **Background:** Present the ideas and reasoning behind the proposed research and include relevant literature citations. Describe and show the preliminary data to justify the rationale for the proposed project.

  - **Hypothesis or Objective:** State the hypothesis to be tested or the objective to be reached. Describe how the project addresses one or more of the FY18 ARP Idea Development Award Areas of Interest or a critical problem or question in ASD.

  - **Specific Aims:** Concisely explain the project’s specific aims to be supported by this application. If the proposed research is correlated with 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 assessment. Address potential limitations and present alternative methods and approaches. *If applicable,* describe how the human subject population is appropriate for the study and provide assurance that there is clear access to the designated population. **Partnering PI Option:** Describe how the research project is supported and strengthened by the proposed synergistic collaboration. If the project is multi-organizational, describe plans for communication between investigators at each organization.

- **Statistical Plan:** Clearly describe the statistical plan and the rationale for the statistical methodology as well as an appropriate power analysis. Describe how the statistical plan is appropriate for the experimental methodology being used. Detail how the proposed statistical analysis supports the relevance of any research outcomes to a critical problem or question in ASD or the FY18 ARP Idea Development Award Area(s) of Interest identified.

- **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.

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

- References Cited: List the references cited (including URLs, if available) in the Project Narrative using a standard reference format 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 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, 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. If an investigator at an intramural organization is named as a collaborator on an application submitted through an extramural organization, the application must include a letter from the collaborator’s Commander or Commanding Officer at the intramural organization that authorizes the collaborator’s involvement.

  - Intellectual and Material Property Plan (if applicable): Provide a plan for resolving intellectual and material property issues among participating organizations. For the Partnering PI option, participating organizations must resolve potential intellectual and material property issues and remove any barriers that might interfere with achieving high levels of cooperation to ensure successful completion of the proposed research.
  - 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.

- Use of DoD Resources (if applicable): Provide a letter of support signed by the lowest-ranking person with approval authority confirming access to active duty military patient populations and/or DoD resources or databases.

- Investigators are encouraged to submit their data to the NDAR, a secure bioinformatics platform for data sharing of ASD-related information, supported by the NIH. For more information, consult the NDAR website at http://ndar.nih.gov.
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.

- Background: Present the ideas and reasoning behind the proposed research. Identify the FY18 ARP Idea Development Award Area(s) of Interest to be addressed in the proposed research, if applicable, or the critical problem or question in ASD to be addressed by the proposed research project.

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

- Specific Aims: State the specific aims of the study.

- Study Design: Briefly describe the study design including appropriate controls.

- Impact: Summarize how the proposed project is relevant to and will have an impact on the outcomes of individuals with ASD, their families, and/or the understanding of ASD. Describe the impact on the specified population, if applicable.

- Innovation: Briefly describe how the proposed project uses innovation to yield critical discoveries, new avenues of investigation, or major advancements to improve the understanding of ASD and ultimately to improve outcomes of individuals with ASD.

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.

- Identify the FY18 ARP Idea Development Award Area(s) of Interest to be addressed in the proposed research, if applicable, or a critical problem or question in ASD to be addressed by the proposed research project.

- Describe the innovative aspects of the proposed research project.

- Explain the impact that the proposed research project’s results might have on the field of ASD research. Describe the impact, in the short or long term, on individuals with ASD their families, and/or the understanding of ASD.
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 Idea Development Award mechanism, use the SOW format example titled, “SOW (Statement of Work) Generic Format.” The SOW must be in PDF format prior to attaching.

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.

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

**Partnering PI Option:** Each PI must submit an identical copy of a jointly created SOW. The contributions of the Initiating PI and each Partnering PI should be noted for each task.

Attachment 6: Impact Statement (one-page limit): Upload as “Impact.pdf.” Describe how the proposed research is relevant to ASD now. Detail the anticipated outcome(s)/product(s) (intellectual and/or tangible) that will be directly attributed to the results of the proposed research project (short-term impact). Compare the anticipated outcomes from the proposed project to ASD information/products currently available, if applicable. Describe the short-term and long-term impact of the expected results of the study on the field and on the outcomes of individuals with ASD and the well-being of their families/caregivers.

Attachment 7: Innovation Statement (one-page limit): Upload as “Innovation.pdf.” Summarize how the proposed research is innovative. State how the research challenges existing paradigms or presents new paradigms in the field of ASD research. Investigating the next logical step or an incremental advancement on published data is not considered innovative.

Attachment 8: Outcomes Statement (four-page limit): Upload as “Outcomes.pdf.” Provide ASD or other developmental disorder(s) research outcomes of the PI and Partnering PI (if applicable) based on the outline below:

- Past and current ASD or other developmental disorders research support from both Federal and non-Federal sources (as applicable) from the past 5 years.
- Any honoraria, awards, or other distinctions received for work in ASD or other developmental disorders research from the past 5 years.

- Any patents or other ASD or other developmental disorders research accomplishments from the past 5 years.

○ **Attachment 9: Representations, if applicable (extramural submissions only):** Upload as “MandatoryReps.pdf.” All extramural applicants must complete and submit the Required Representations template available on eBRAP (https://ebrap.org/eBRAP/public/Program.htm). For more information, see the General Application Instructions, Appendix 5, Section B, Representations.

○ **Attachment 10: DoD Military Budget Form(s), if applicable:** Upload as “MFBudget.pdf.” If a military facility (Military Health System facility, research laboratory, medical 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**

  To evaluate compliance with Title IX of the Education Amendments of 1972 (20 USC A§1681 et seq.), the DoD is collecting certain demographic and career information to be able to assess the success rates of women who are proposed for key roles in applications in science, technology, engineering, or mathematics (STEM) disciplines. To enable this assessment, each application must include the following forms completed as indicated.

  **Research & Related Personal Data:** 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.

  **Research & Related Senior/Key Person Profile (Expanded):** 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.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 NIH Biographical Sketch may also be used. All biographical sketches should be submitted in the PDF format 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.”
  – **Partnering PI Option:** Include biographical sketches for the Initiating and Partnering PI.

○ Key Personnel Previous/Current/Pending Support (no page limit): Upload as “Support_LastName.pdf.”
  – **Partnering PI Option:** Include previous/current/pending support for the Initiating and Partnering PI.

**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.

*Initiating and Partnering PIs must each submit a budget and justification specific to his/her own portion of the effort as part of his/her separate Grants.gov or eBRAP application packages. The Initiating PI should not include budget information for Partnering PI, even if they are located within the same organization. Refer to Section II.D.5, Funding Restrictions, for detailed information.*

**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.) Verify subaward budget(s) and budget justification forms are present in eBRAP during the application verification period. If these components are missing, upload them to eBRAP before the end of the application verification period.

**Intramural DoD Collaborator(s):** Complete the DoD Military Budget Form and upload to Grants.gov attachment form as Attachment 10. (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.

DoD Military Budget Form: A military facility collaborating in the performance of the project (but not participating as a Partnering PI) should be treated as a subaward for budget purposes. However, do not complete the Grants.gov R&R Subaward Budget Attachment Form; instead, complete the DoD Military Budget Form (Attachment 10) to show all direct and indirect costs. The costs per year should be included on the Grants.gov Research & Related Budget Form under subaward costs. Refer to the General Application Instructions, Section III.A.7, for detailed information.

Application Components for the Partnering PI(s)

The Partnering PI must follow the link in the email from eBRAP and, if not registered in eBRAP, complete the registration process prior to the application submission deadline in order to associate his/her full application package with that of the Initiating PI.

For each Partnering PI, the Initiating PI must identify if that Partnering PI will be submitting an extramural or intramural application (in accordance with the guidelines in Section II.C.1.a, Organization) and the appropriate mode of submission (Grants.gov for extramural and eBRAP for intramural). Each Partnering PI must verify his/her contact information and mode of submission within eBRAP to ensure proper submission of his/her application.

The application submission process for the Partnering PI(s) uses an abbreviated full application package that includes:

- Extramural and Intramural Applications

Attachments:

- **Attachment 5: Statement of Work (three-page limit):** Upload as “SOW.pdf.” Refer to the General Application Instructions, Section III.A.2, for detailed information on completing the SOW. Each PI must submit an identical copy of a jointly created SOW. The contributions of the Initiating PI and Partnering PI(s) should be noted for each task.

- **Attachment 9: Representations** (Extramural Submissions only): Upload as “MandatoryReps.pdf”. All extramural applicants must complete and submit the Required Representations available on eBRAP (https://ebrap.org/eBRAP/public/Program.htm). For more information see the General Application Instructions, Appendix 5, Section B, Representations.

- **Attachment 10: DoD Military Budget Form:** Upload as “MFBudget.pdf.” Refer to the General Application Instructions, Section III.A.7, for detailed information. The costs per year should be included on the Grants.gov Research and Related Budget form under subaward costs.
**Research & Related Budget:** For extramural submissions, refer to the General Application Instructions, Section III.A.4, and for intramural submissions, refer to the General Application Instructions, Section IV.A.3, for detailed information.

**Budget Justification (no page limit):** Upload as “BudgetJustification.pdf.”

_Initiating and Partnering PIs must each submit a budget and justification specific to his/her own portion of the efforts as part of his/her separate Grants.gov application packages. The Research & Related Budget for the Partnering PI should not include budget information for the Initiating PI, even if they are located within the same organization. Refer to Section II.D.5, Funding Restrictions, for detailed information._

**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 General Application Instructions, Section IV.A.4, for detailed information.

- **Extramural Applications Only**
  
  **R&R Subaward Budget Attachment(s) Form:**
  
  o **Extramural Subaward:** Complete the R&R Subaward Budget Form through Grants.gov. (Refer to the General Application Instructions, Section III.A.6, for detailed information.)
  
  o **Intramural DoD Collaborator(s):** Complete the DoD Military Budget Form and upload to Grants.gov attachment form as Attachment 10. (Refer to the General Application Instructions, Section IV.A.3, for detailed information.)

**II.D.3. Dun and Bradstreet Data 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 several weeks to complete the entire SAM registration process. If an applicant has not fully complied with the requirements at 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**

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.

**Extramural Submission:** 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, **with the exception of the Project Narrative and Budget Form,** may be modified.

**Intramural DoD Submission:** After eBRAP has processed the full application, the organizational Resource Manager/Comptroller/Task Area Manager or equivalent Business Official and PI(s) will receive email notification of the status and will be able to view and modify application components in eBRAP. During the application verification period, the full application package, **with the exception of the Project Narrative and Budget Form,** may be modified. The Resource Manager/Comptroller/Task Area Manager or equivalent Business Official should log into eBRAP to review and to approve prior to the application verification deadline.

**For All Submissions:** Verify that subaward budget(s) with budget justification are present in eBRAP during the application verification period. If these components are missing, upload them to eBRAP before the end of the application verification period.

**II.D.5. Funding Restrictions**

The maximum period of performance is 3 years.

The anticipated direct costs budgeted for the entire period of performance will not exceed **$500,000.** 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 **$500,000** 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 3 years.

**Partnering PI Option:** The anticipated combined direct costs budgeted for the entire period of performance for the Initiating PI and each Partnering PI’s applications will not exceed **$500,000**. If indirect cost rates have been negotiated, indirect costs are to be budgeted in accordance with the organization’s negotiated rate. Collaborating organizations should budget associated indirect costs in accordance with each organization’s negotiated rate. The combined budgeted direct costs approved by the Government will not exceed **$500,000** or use an indirect cost rate exceeding each organization’s negotiated rate.

A separate award will be made to each PI’s organization.

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

- Salary
- Research supplies
- Research-related subject costs
- Clinical research costs
- Support for multidisciplinary collaborations, including travel
- Travel costs for up to one investigator to travel to one scientific/technical meeting per year to present project outcomes or disseminate project results for the ARP Idea Development Award

Must not be requested for:

- Clinical trial cost

Awards made to extramural organizations will consist solely of assistance agreements (grants and cooperative agreements). 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. 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. Application packages from associated extramural partners will be funded through assistance agreements.

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 $1.6M of the $7.5M FY18 to fund approximately 2 Idea 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.

Funds to be obligated on any award resulting from this funding opportunity will be available for use for a limited time period based on the fiscal year of the funds. The time is considered when establishing the award’s period of performance. It is anticipated that awards made from this funding opportunity will be funded with FY18 funds, which will expire for use on September 30, 2024.

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, of which scientific merit is more significant than the remaining criteria, which are of equal importance:

Note that high innovation and impact do not compensate for deficiencies in scientific merit. A statistician will be included on all peer review panels.

- **Scientific Merit**
  - To what extent a clear hypothesis is stated and supported through scientific rationale, preliminary data, and referenced literature.
  - How well the hypothesis or objectives, specific aims, and experimental design are developed.
  - Partnering PI Option: If the application includes a Partnering PI, how well the research project is supported by the nature of the collaboration.
  - If applicable, to what extent the human subject population is appropriate for the study and whether there is clear access to the designated population.
  - To what degree the statistical plan is appropriate for the experimental methodology being used.
  - How well the proposed statistical analysis supports the relevance of any research outcomes to a critical problem or question in ASD or FY18 ARP Idea Development Award Area(s) of Interest identified.
○ Whether the power analysis for the proposed study adequately represents an assessment of the population or subpopulation proposed, if applicable.

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

• **Impact**

○ To what degree the proposed project is relevant to ASD.

○ How the anticipated outcomes from the proposed project compare to information/products currently available, if applicable.

○ To what extent the anticipated short-term outcome(s)/product(s) of the project may impact outcomes of individuals with ASD, their families, and/or improving understanding of ASD

○ To what degree the anticipated long-term gains from this research project may impact the ASD community.

○ To what extent the proposed project, if successful, will ultimately improve the outcomes of individuals with ASD and well-being of their families/caregivers.

• **Innovation**

○ To what extent the proposed research is innovative and, if successful, will challenge existing paradigms, or provide new paradigms, technologies, evidence-based diagnoses, and/or applications for ASD.

○ To what degree the proposed research represents more than a logical extension and/or incremental advance upon published data.

• **Personnel**

○ To what extent the research team’s background and expertise are appropriate to accomplish the proposed research.

○ Whether a biostatistician is included in the study team to improve the overall analysis and course of the proposed research.

○ To what extent the levels of effort by the Initiating and Partnering PIs (if applicable) and other key personnel are appropriate for successful conduct of the proposed research.

○ To what extent each PI’s expertise and skill in the research areas of ASD or other developmental disorders have been demonstrated as evidenced by funding, distinctions, awards, and/or patents.
In addition, the following unscored criteria will also contribute to the overall evaluation of the application:

- **Environment**
  - Whether the scientific environment is appropriate for the proposed research.
  - Whether the research requirements are supported by the availability of and accessibility to facilities and resources.
  - To what extent the quality and level of institutional support are appropriate for the proposed research.
  - If applicable, to what degree the intellectual and material property plan is appropriate.

- **Budget**
  - Whether the maximum *direct* costs are equal to or less than the allowable maximum direct costs as published in the Program Announcement.
  - Whether the budget is appropriate for the proposed research.

- **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 FY18 ARP, as evidenced by the following:
  - Adherence to the intent of the award mechanism
  - Program portfolio balance
  - Programmatic relevance to the FY18 ARP Idea Development Award Areas of Interest or a critical problem or question in ASD
  - Relative impact and innovation
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 ARP, 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](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 and approval process to gain protected evaluation information or to influence the evaluation process. Violations of these prohibitions will result in the administrative withdrawal of the organization’s application. Violations by panel members or applicants that compromise the confidentiality of the review and approval process may also result in suspension or debarment from Federal awards. Furthermore, the unauthorized disclosure of confidential information of one party to 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 awarding agency is required to review and consider any information about the applicant that is available in the Federal Awardee Performance and Integrity Information System (FAPIIS).

An applicant organization may review FAPIIS, accessible through SAM, and submit comments to FAPIIS on any information about the organization that a Federal awarding agency previously entered and is currently available in FAPIIS.

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, 2019. Refer to the General Application Instructions, Appendix 2, for additional award administration information.

After email notification of application review results through 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 document.

Federal 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 Manager/Task Area Manager/Comptroller or equivalent Business Official.

After email notification of application review results through 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. PI Changes and Award Transfers

Unless otherwise restricted, changes in PI or organization will be allowed at the discretion of the USAMRAA Grants Officer, provided that the intent of the award mechanism is met.

An organizational transfer of an award supporting the Initiating PI, or Partnering PI is discouraged and will be evaluated on a case-by-case basis and only allowed 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

If additional conference travel is proposed, prior to the re-budgeting and in advance of the incurrence of the travel costs, the Grants Officer should be consulted to determine the reasonableness of the expense in accordance with 2 CFR 200.407.

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 with Institutions of Higher Education, Hospitals, and Non-Profit Organizations: Addendum to the DoD R&D Terms and Conditions and the USAMRAA General Research Terms and Conditions with For-Profit Organizations for further information.

II.F.3. Reporting

Refer to the General Application Instructions, Appendix 2, Section A, for general information on reporting requirements. *If there are technical reporting requirement delinquencies for any existing USAMRAA-sponsored awards at the applicant organization, no new awards will be issued to the applicant organization until all delinquent reports have been submitted.*

Annual progress reports as well as a final progress report will be required.

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

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

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 (see General Application Instructions, Section III.A.4).

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 20180329f. The Program Announcement numeric version code will match the General Applications Instructions version code 20180329.

II.H.2. Administrative Actions

After receipt of pre-applications or applications, the following administrative actions may occur:
II.H.2.a. Rejection

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

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

The following will result in administrative rejection of the application:

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

**Partnering PI Option:** Both Initiating PI and Partnering PI applications are not submitted by the deadline.

II.H.2.b. Modification

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

II.H.2.c. Withdrawal

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

- An FY18 ARP 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 FY18 ARP Programmatic Panel members can be found at [http://cdmrp.army.mil/arp/panels/panels18](http://cdmrp.army.mil/arp/panels/panels18)*.
- 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 FY18, 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 or approval process to gain protected evaluation information or to
  influence the evaluation process.

- Applications from extramural organizations, including non-DoD Federal agencies, received
  through eBRAP 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.

- The invited application does not propose the same research project described in the pre-
  application.

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

- An application for which the PI (Single, Initiating, or Partnering) does not meet the eligibility
  criteria will be withdrawn.

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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</thead>
<tbody>
<tr>
<td>SF424 (R&amp;R) Application for Federal Assistance (Extramural submissions only)</td>
<td>Complete form as instructed.</td>
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<tr>
<td>Summary (Tab 1) and Application Contacts (Tab 2) (Intramural submissions only)</td>
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<tr>
<td>Attachments</td>
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<td>Project Narrative: Upload as Attachment 1 with file name “ProjectNarrative.pdf.”</td>
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<tr>
<td>Supporting Documentation: Upload as Attachment 2 with file name “Support.pdf.”</td>
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<tr>
<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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<tr>
<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>Innovation Statement: Upload as Attachment 7 with file name “Innovation.pdf.”</td>
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<td>Outcomes Statement: Upload as Attachment 8 with file name “Outcomes.pdf.”</td>
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<td>Representations (Extramural submissions only): Upload as Attachment 9 with file name “MandatoryReps.pdf,” if applicable.</td>
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<tr>
<td>DoD Military Budget Form(s): Upload as Attachment 10 with file name “MFBudget.pdf,” if applicable.</td>
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<tr>
<td>Research &amp; Related Senior/Key Person Profile (Expanded)</td>
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<td>Attach PI Biographical Sketch (Biosketch_LastName.pdf) to the appropriate field.</td>
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<td></td>
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<tr>
<td>Attach PI Previous/Current/Pending Support (Support_LastName.pdf) to the appropriate field.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attach Biographical Sketch (Biosketch_LastName.pdf) for each senior/key person to the appropriate field.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attach Previous/Current/Pending Support (Support_LastName.pdf) for each senior/key person to the appropriate field.</td>
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<tr>
<td>Application Components</td>
<td>Action</td>
<td>Completed</td>
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<tr>
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<tr>
<td>Research &amp; Related Budget (Extramural submissions only)</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>
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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

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACURO</td>
<td>Animal Care and Use Review Office</td>
</tr>
<tr>
<td>ARP</td>
<td>Autism Research Program</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>COI</td>
<td>Conflict of Interest</td>
</tr>
<tr>
<td>DHA</td>
<td>Defense Health Agency</td>
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<tr>
<td>DHP</td>
<td>Defense Health Program</td>
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<tr>
<td>DoD</td>
<td>Department of Defense</td>
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<td>DoDGARs</td>
<td>Department of Defense Grant and Agreement Regulations</td>
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<td>DUNS</td>
<td>Data Universal Numbering System</td>
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<td>eBRAP</td>
<td>Electronic Biomedical Research Application Portal</td>
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<td>EC</td>
<td>Ethics Committee</td>
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<tr>
<td>ET</td>
<td>Eastern Time</td>
</tr>
<tr>
<td>FAD</td>
<td>Funding Authorization Document</td>
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<tr>
<td>FAPIIS</td>
<td>Federal Awardee Performance and Integrity Information System</td>
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<tr>
<td>FY</td>
<td>Fiscal Year</td>
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<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>
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<tr>
<td>IRB</td>
<td>Institutional Review Board</td>
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<tr>
<td>M</td>
<td>Million</td>
</tr>
<tr>
<td>MIPR</td>
<td>Military Interdepartmental Purchase Request</td>
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<tr>
<td>NDAR</td>
<td>National Database for Autism Research</td>
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<td>NIH</td>
<td>National Institutes of Health</td>
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<tr>
<td>OASD(HA)</td>
<td>Office of the Assistant Secretary of Defense for Health Affairs</td>
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<tr>
<td>ORCID</td>
<td>Open Researcher and Contributor ID, Inc.</td>
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<td>ORP</td>
<td>Office of Research Protections</td>
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<tr>
<td>PI</td>
<td>Principal Investigator</td>
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<tr>
<td>RDT&amp;E</td>
<td>Research, Development, Test, and Evaluation</td>
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<td>SAM</td>
<td>System for Award Management</td>
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<tr>
<td>SOW</td>
<td>Statement of Work</td>
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<tr>
<td>USAMRAA</td>
<td>U.S. Army Medical Research Acquisition Activity</td>
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<td>USAMRMC</td>
<td>U.S. Army Medical Research and Materiel Command</td>
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<td>USC</td>
<td>United States Code</td>
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