# Department of Defense Vision Research Funding Opportunities

CUTTING EDGE RESEARCH

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The views expressed in this presentation are those of the author and may not reflect the official policy or position of the Department of the Army, Department of Defense, or the U.S. Government







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# Congressionally Directed Medical Research Programs (CDMRP)

## » CONGRESSIONAL PROGRAMS

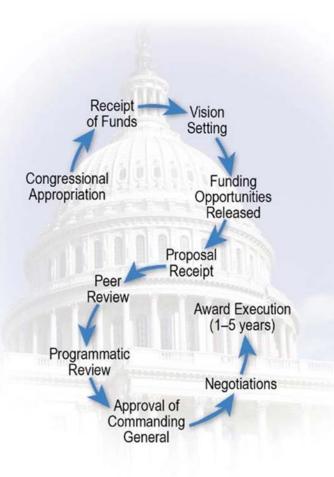
- » Manages extramural research programs directed by Congress since 1992
- » FY20: 35 research programs, \$1.2B total appropriation

### » DoD PROGRAMS

» Provides intramural/extramural research management support to Program Area Directorates (PADs)/Joint Program Committees (JPCs)

## » **DIRECTOR**

» COL Stephen J. Dalal



Website: cdmrp.army.mil





# **FY20 CDMRP Funding**

Program	\$M	Program	\$M
Amyotrophic Lateral Sclerosis	\$20.0	Neurofibromatosis	\$15.0
Autism	\$15.0	Neurotoxin Exposure Treatment Parkinson's	\$16.0
Bone Marrow Failure	\$3.0	Orthotics and Prosthetics Outcomes	\$15.0
Breast Cancer	\$150.0	Ovarian Cancer	\$35.0
Breast Cancer Research Semipostal	TBD	Pancreatic Cancer*	\$6.0
Chronic Pain	\$15.0	Peer Reviewed Alzheimer's	\$15.0
Combat Readiness	\$10.0	Peer Reviewed Cancer (14 Topics)	\$110.0
<b>Duchenne Muscular Dystrophy</b>	\$10.0	Peer Reviewed Medical (44 Topics)	\$360.0
Epilepsy	\$12.0	Peer Reviewed Orthopaedic	\$30.0
Gulf War Illness	\$22.0	Prostate Cancer	\$110.0
Hearing Restoration	\$10.0	Rare Cancers*	\$7.5
Joint Warfighter Medical	\$40.0	Reconstructive Transplant	\$12.0
Kidney Cancer	\$40.0	Scleroderma*	\$5.0
Lung Cancer	\$14.0	Spinal Cord Injury	\$40.0
Lupus	\$10.0	Tick-Borne Disease	\$7.0
Melanoma	\$20.0	Tuberous Sclerosis Complex	\$6.0
Military Burn	\$10.0	Vision	\$20.0
Multiple Sclerosis	\$16.0		
* New for EV20		TOTAL	_ \$1.2B

\* New for FY20





# **Unique Public-Private Partnership**

#### Consumers

- » Demonstrate need
- » Participate at all levels
- » Bring passion and perspective





IMPROVE HEALTH OUTCOMES



## Congress

- » Adds funds to budget
- » Provides targeted guidance

### Researchers

- » Carry out research
- » Peer review
- » Subject matter experts



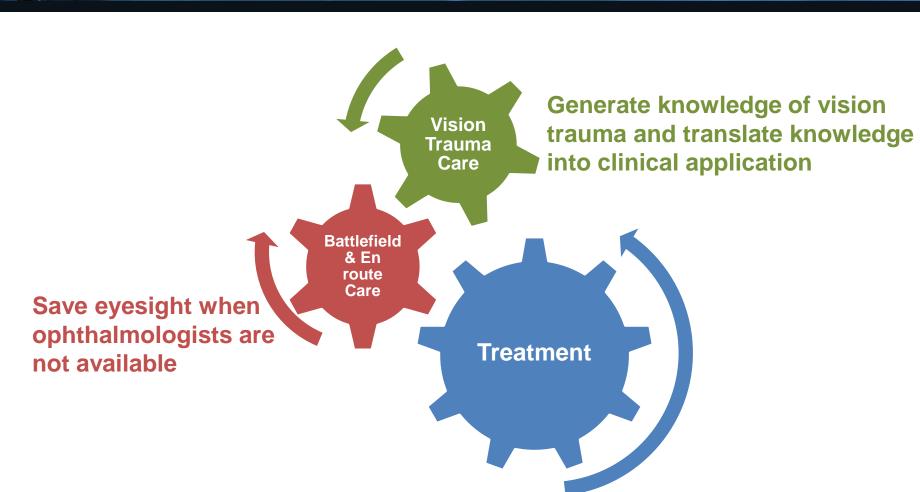
#### DoD

- » Oversees program management
- » Contracting actions
- » Regulatory requirements





## Challenges of Military-Relevant Vision Trauma Care



Preservation of eyesight of Warfighters requires:

Clinically relevant mechanisms & therapeutics

+ Battlefield/en route care capability





## **VRP Program Priorities**

# Accelerate research in eye injury and vision dysfunction due to military-relevant trauma

- For example (more examples are provided in FTTSA PA):
  - » Identification of significant changes in pathophysiology over time after trauma to inform targeted treatments
  - » Elucidation of molecular, cellular, and biophysical mechanisms of a military-relevant trauma
  - » Development or improvement of clinically relevant trauma models

# 2. Advance diagnosis and treatment of eye injuries in both a forward operating environment and a prolonged field care setting

- Diagnostics and interventions that enable decision-making, triaging, stabilization, and management in austere conditions such as prolonged evacuation time and limited specialty care.
- » Research addressing #1 can inform those addressing #2





## **Vision Research Program**

#### **≡** News & Highlights

Defense Health Program Department of Defense Vision Research Program Anticipated Funding Opportunities for Fiscal Year 2020 (FY20)

FY19 VRP Recommended for Funding List

CAPT Walter Steigleman, MD - Advancing Research for Military Vision Trauma

MAJ Thomas Zampieri (USA Ret.), PhD, PA - Restoring Hope for Service Members with Eve Trauma

2019 Military Health System Research Symposium Call for Abstracts for Vision-Associated Breakout Sessions Z

**VRP Program Summary** Sheet L

More.

#### Vision

Transform visual system trauma care for our armed forces and the nation

#### Mission

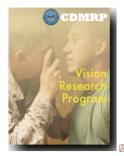
To identify and address clinical needs through directed medical research to improve the health and readiness of military personnel affected by eye injuries and vision dysfunction

#### Vision

Vision - Transform visual system trauma care for our armed forces and the nation

Eye injury and visual dysfunction resulting from battlefield trauma affect a large number of Service members and Veterans, Surveillance data from the U.S. Department of Defense indicate that eve injury accounts for approximately 15% of all injuries from battlefield trauma sustained during the wars in Afghanistan and Irag, resulting in more than 182,000 ambulatory patients and 4,000 hospitalizations between 2000 and 2011. In addition, traumatic brain injury (TBI), which affects more than 380,000 Service members between 2000 and 2018, can have significant impact on vision even when there is no injury to the eye. Research sponsored by the U.S. Department of Veterans Affairs showed that as many as 75% of Service members who had suffered a TBI had visual dysfunction.

The Vision Research Program (VRP) was established by Congress in fiscal year 2009 (FY09) to fund impactful military-relevant vision research that has the potential to significantly improve the health care and well-being of Service members, Veterans, their family members and caregivers, and the American public. The VRP's program area aligns with the Sensory Systems task area of the Clinical and Rehabilitative Medicine Research Program, a core research program of the Defense Health Agency. The VRP was administered by the US Army Medical Research and Materiel Command's Telemedicine and Advanced Technology Research Center from FY09 to FY12 and was transitioned to the Congressionally Directed Medical Research Programs (CDMRP) for administration starting with the FY13 program cycle.



» Click on Image to View Program Booklet



#### Resources for Investigators:

- A Beginner's Guide to Army Healthcare System
- Joint Health Services Publication JP 4-02
- Blast Term Dictionary and Guidance Documents for Blast Injury Research
- A Primer for Conducting DoD Funded Human Research with Military Populations
- What is austere environment?
- What is prolonged field care?
- What medical care capability is available in the military operational environment?



#### Congressional **Appropriations**

\$104.95 million FY09-FY19

> \$20 million FY20



#### Funding Summary

94 Awards in FY09-18

Recent Applications Recommended for Funding



#### Programmatic Panels

FY20 Programmatic Panel

Previous Years' Programmatic Panels



#### Peer Review **Participants**

FY19 Peer Review Participants 🔼

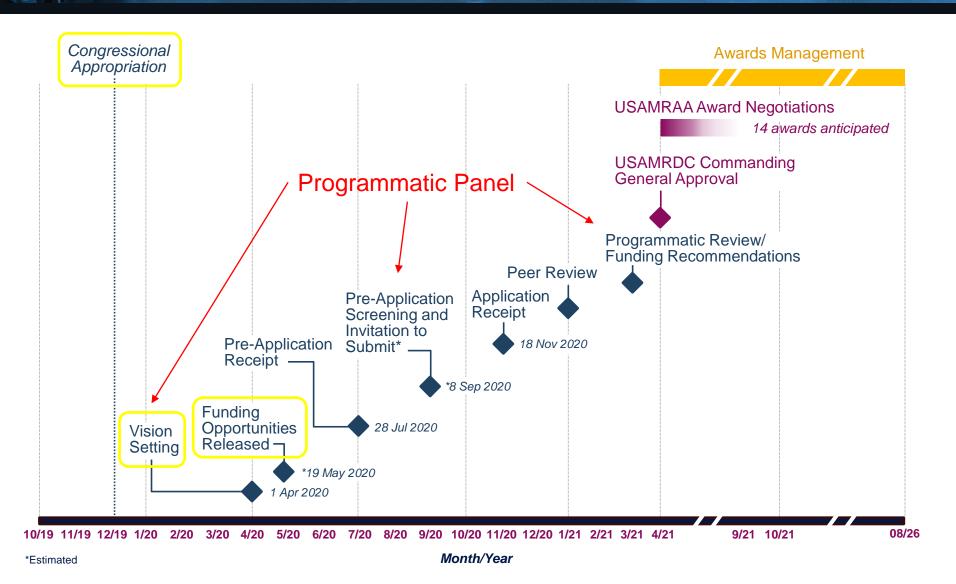
Previous Years' Peer Review Participants

# CUTTING EDGE RESEARCH

## **FY20 VRP Program Cycle**



1. Creation and Release of Funding Opportunities





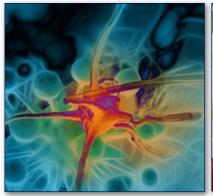


## **Vision Setting**

At Vision Setting each year, the Programmatic Panel recommends an investment strategy, considering factors such as:

- » Congressional language
- » Current research landscape
- » Emerging technologies
- » Research gaps
- » Impact
- » Portfolio composition















# **FY20 VRP Investment Strategy**

Award Mechanism	Funding Level	Direct Costs	Number of Awards*
Investigator-Initiated Research Award (IIRA)	FL1	\$0.260M	7
	FL2	\$0.750M	4
Translational Research Award (TRA)	N/A	\$1.0M	2
Focused Translational Team Science Award (FTTSA)	N/A	\$5.0M	1

\*estimated





## **Funding Opportunity Documents**

## Program Announcement

#### I. OVERVIEW OF THE FUNDING OPPORTUNITY

Program Announcement for the Department of Defense

**Defense Health Program** 

Congressionally Directed Medical Research Programs

Vision Research Program

**Investigator-Initiated Research Award** 

Announcement Type: Initial

Funding Opportunity Number: W81XWH-20-VRP-IIRA

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 28, 2020

Invitation to Submit an Application: September 2020

Application Submission Deadline: 11:59 p.m. ET, November 18, 2020

• End of Application Verification Period: 5:00 p.m. ET, November 23, 2020

Peer Review: January 2021

Programmatic Review: March 2021

This Program Announcement must be read in conjunction with the General Application Instructions, version 501. The General Application 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."

## General Application Instructions

General Application Instructions

Version 501

Department of Defense

Defense Health Program

Congressionally Directed Medical Research Programs

#### **Table of Contents**

I. HELPFUL INFORMATION	2
A. Tips for Success	2
B. Applicant Organizations	2
C. Current Funding Opportunities	2
D. Receiving Emails from CDMRP, eBRAP, and Grants.gov	3
E. Agency Contacts	3
F. Application Submission Overview	3
II. eBRAP REGISTRATION AND PRE-APPLICATION SUBMISSION	4
A. Registration Requirements (All Applicants).	
B. Content and Form of Pre-Application Submission	
III. APPLICATION SUBMISSION FOR EXTRAMURAL ORGANIZATIONS	
A. Grants.gov Application Package Components	
B. Submission to Grants.gov	
C. Applicant Verification of Grants.gov Submission in eBRAP	
D. Application Tracking	
IV. APPLICATION SUBMISSION FOR INTRAMURAL ORGANIZATIONS	
A. eBRAP Application Package Components	27
APPENDIX 1 Regulatory Requirements	34
APPENDIX 2 Reporting Requirements and Administrative Information	42
APPENDIX 3 Qualification and Restrictions Information	48
APPENDIX 4 Formatting Guidelines	49
APPENDIX 5 National Policy Requirements	
APPENDIX 6 Acronym List	

This General Application Instructions document must be read in conjunction with the Program Announcement for this funding opportunity, which is available for downloading from Grants.gov and eBRAP.org.



# **Conceiving a Project**

#### TABLE OF CONTENTS

I.	OVER	VIEW OF THE FUNDING OPPORTUNITY	1
II.	DETAI	LED INFORMATION ABOUT THE FUNDING OPPORTUNITY	3
	II.A. Pro	gram Description	3
	II.A.1.	FY20 VRP Focus Areas	3
	II.A.2.	Award History	4
$\Rightarrow$	II.B. Aw	ard Information	4
	II.C. Elig	ibility Information	7
	II.C.1.	Eligible Applicants	7
	II.C.2.	Cost Sharing	8
	II.C.3.	Other	8
	II.D. App	olication and Submission Information	8
	II.D.1.	Address to Request Application Package	9
	II.D.2.	Content and Form of the Application Submission	9
		Dun and Bradstreet Data Universal Numbering System (DUNS) Number and	
		n for Award Management (SAM)	
		Submission Dates and Times	
		Funding Restrictions.	
		Other Submission Requirements	
		lication Review Information	
		Criteria	
		Application Review and Selection Process.	
		Integrity and Performance Information.	
		Anticipated Announcement and Federal Award Dates	
		eral Award Administration Information	
		Federal Award Notices	
		Administrative and National Policy Requirements	
		Reporting	
		eral Awarding Agency Contacts	
		CDMRP Help Desk	
		Grants.gov Contact Centerer Information	
		Program Announcement and General Application Instructions Versions	
		Administrative Actions	
		Administrative Actions	
A Di		1: ACRONYM LIST	
AP	PENDIA	1: AURON1 M Li51	35





## **FY20 VRP IIRA**

- » Supports studies that will yield highly impactful discoveries or major advancements.
- » Funding Level 1 supports exploratory, high-risk/high-reward research in the earliest stages of idea development.
  - » Research must have the <u>potential to yield new avenues of investigation</u>, such as new approaches, new research tools, or new paradigms.
  - » While preliminary data are NOT required, applicants must provide solid rationale of the research idea.
  - » The investigating team must have sufficient expertise to test the idea.
- » Funding Level 2 supports the advancement of more mature research that has the potential to make significant advancements toward clinical translation.
  - » Applications may focus on any phase of research from basic through translational.
  - » Preliminary data supporting the readiness and feasibility of the proposed research are required.
- » Research involving human subjects and human anatomical substances is permitted.
- » Clinical trials are not allowed.
- » Following selection of projects for VRP funding, the VRP may share FY20 IIRA applications and reviews with the NEI for independent funding consideration.





## VRP Award Mechanisms and the Research Pipeline

### Building Hypothesis, Initial Ideas

Ideas, Knowledge, Technology

#### **Translation**

**Clinical Trial** 

- Hypothesis Development Award (HDA) (FY11-14)
- Investigator-Initiated Research Award (IIRA), Funding Level 1 (FY18-20)

\$260K/2-yr

- IIRA (FY11-12, FY18)
- IIRA Funding Level 2 (FY18-20)

\$750K/3-yr

- Translational Research Award (TRA) (FY13-14) with Pilot Clinical Trial Option (FY18-20)
- Technology/Therapeutic Development Award (TTDA) (FY15-17)
- (FY15-17)

Clinical Trial Award (CTA)

 Focused Translational Team Science Award (FTTSA) with Pilot Clinical Trial Option (FY18-20)

• Expansion Award (EA) (FY18)





## **FY20 VRP TRA**

- » Supports translational research that moves promising laboratory research into clinical applications.
- » It is expected that an IND or IDE application will be submitted during or by the end of the period of performance.
- » Preliminary data are required.
- » May include, as a portion of the proposed research, a pilot clinical trial (PCT) component.
  - » In contrast to full-scale clinical trials that are designed to determine safety or efficacy, the purpose of the PCT is generate preliminary data to inform the feasibility, rationale, and design of subsequent clinical trials through limited clinical testing of a novel intervention.
  - » Applications that include a PCT as part of the proposed research will have additional submission requirements (Pilot Clinical Trial Plan, Regulatory Strategy) and review criteria.
- » Following selection of projects for VRP funding, the VRP may share FY20 TRA applications and reviews with the NEI for independent funding consideration.





## VRP Award Mechanisms and the Research Pipeline

### Building Hypothesis, Initial Ideas

Ideas, Knowledge, Technology

#### **Translation**

**Clinical Trial** 

- Hypothesis Development Award (HDA) (FY11-14)
- Investigator-Initiated Research Award (IIRA), Funding Level 1 (FY18-20)
- IIRA (FY11-12, FY18)
- IIRA Funding Level 2 (FY18-20)
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- Clinical Trial Award (CTA) (FY15-17)
- Focused Translational Team Science Award (FTTSA) with Pilot Clinical Trial Option (FY18-20)

• Expansion Award (EA) (FY18)





## **FY20 FTTSA**

» Supports a team initiative that leverages the strengths of <u>investigators specializing in</u> <u>different fields</u> to address an overarching scientific challenge or question and fundamentally advance the understanding and treatment of military-relevant vision trauma.

#### » Overarching Challenge

- » Consider barrier(s) to and/or gap(s) in the understanding, prevention, diagnosis, mitigation, and/or treatment of eye injury or visual dysfunction associated with a military-relevant trauma and envision what may be achievable in 10 to 15 years.
- » Identify, based on the long-term vision, what should and can be achieved in the near term.
- » Design projects and research teams around these considerations.

#### » Research Projects

- » 3-5 distinct research projects, each representing a unique approach to address the overarching challenge
- » Individual projects must be capable of standing on their own scientific merits and <u>not dependent on the success of any other project</u>.
- » Preliminary data to support the <u>feasibility of each project</u> are required.
- » Synergy between project will advance a solution beyond what would be possible through individual efforts.
- » May include, as a portion of the proposed research, a pilot clinical trial component that collects preliminary data to inform the feasibility, rationale, and design of subsequent clinical trials.

#### » Research Team

- » The overall lead PI: Associate Professor or above, with experience in leading large collaborative research projects; a minimum of 20% effort.
- » Each project leader, including the overall lead PI, may lead only one project.
- » Must have a detailed <u>Implementation Plan</u> for participating research groups to coordinate efforts, facilitate collaboration, and create synergy.





## VRP Award Mechanisms and the Research Pipeline

### Building Hypothesis, Initial Ideas

Developing Ideas, Knowledge, Technology

#### **Translation**

**Clinical Trial** 

- Hypothesis Development Award (HDA) (FY11-14)
- Investigator-Initiated Research Award (IIRA), Funding Level 1 (FY18-20)
- IIRA (FY11-12, FY18)
- IIRA Funding Level 2 (FY18-20)
- Translational Research Award (TRA) (FY13-14) with Pilot Clinical Trial Option (FY18-20)
- Technology/Therapeutic Development Award (TTDA) (FY15-17)
- Clinical Trial Award (CTA) (FY15-17)
- Focused Translational Team Science Award (FTTSA)
   with Pilot Clinical Trial Option (FY18-20)

\$5.0M/4-yr

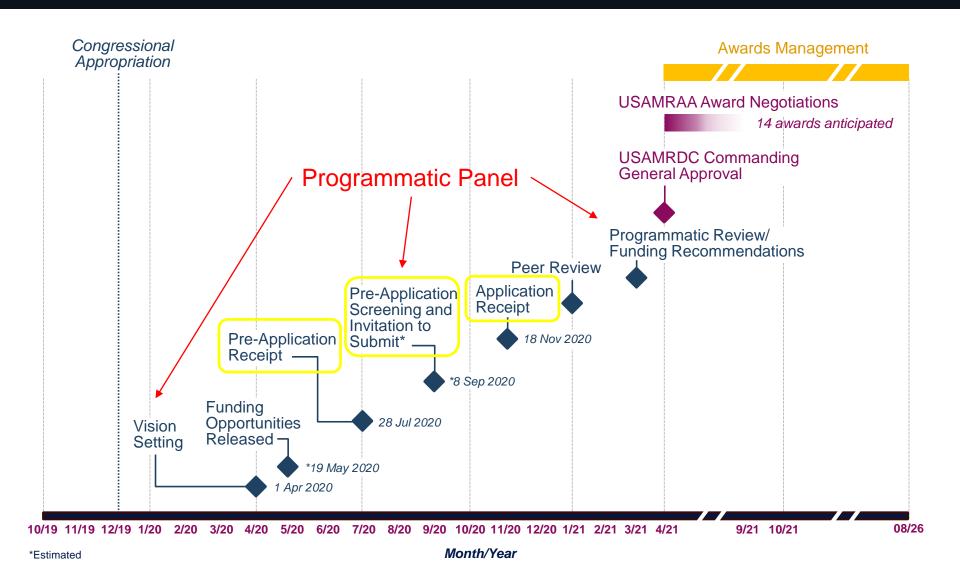
• Expansion Award (EA) (FY18)

# CUTTING EDGE RESEARCH

## **FY20 VRP Program Cycle**



2. Pre-application and Application Submission







# **Pre-Application Screening Criteria**

IIRA	TRA	FTTSA
<ul> <li>Research Idea/Rationale         (Including alignment to FY20 VRP         Focus Areas)</li> <li>Objectives/Hypothesis(es),         Specific Aims, and         Approaches</li> </ul>	<ul> <li>Research Idea/Rationale         (Including alignment to FY20 VRP         Focus Areas)</li> <li>Objectives/Hypothesis(es),         Specific Aims, and         Approaches</li> </ul>	<ul> <li>Overarching Challenge</li> <li>Research Strategy         <ul> <li>Projects → overarching challenge</li> <li>Rationale</li> <li>Objectives/Hypothesis(es), Specific Aims, and Approaches</li> <li>Synergy</li> </ul> </li> </ul>
<ul><li>Impact</li><li>Personnel</li></ul>	<ul> <li>Translational Potential:         How well the proposed research presents a clear path to transform a promising discovery into new drugs, devices, or clinical practice guidelines that are ready for definitive testing in clinical trials.     </li> <li>Impact</li> <li>Personnel</li> </ul>	<ul> <li>Research Team</li> <li>Leverage strengths of investigators specializing in different fields</li> <li>Have sufficient expertise</li> <li>Interaction and collaboration</li> <li>Impact</li> </ul>

- » Applicants do not receive feedback on pre-application
- » Submission of full application is by invitation only

# Content and Form of the Full Application Submission

# » Full Application Submission Content Take advantage of Application Submission Checklist

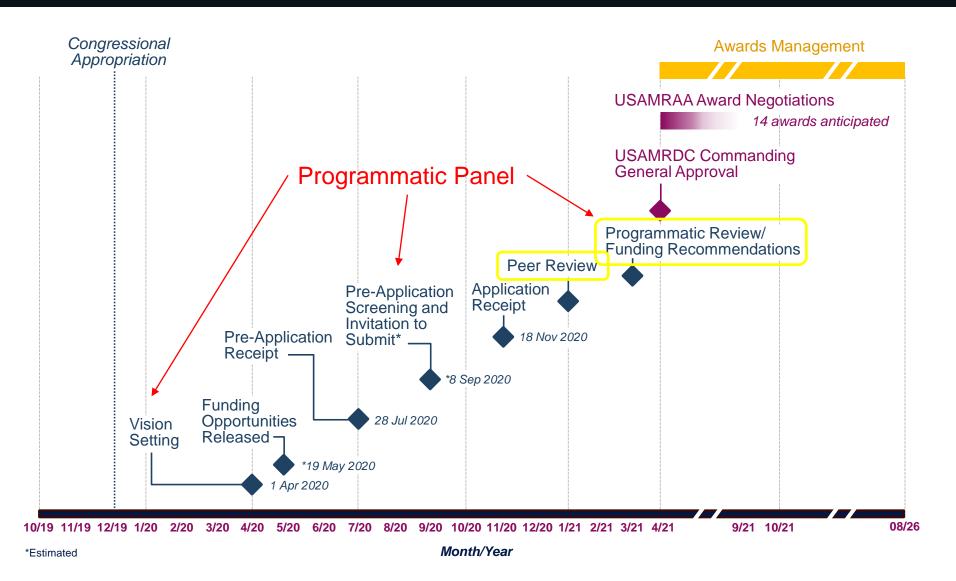
<b>Application Components</b>	Action	Completed
SF424 (Extramural only)	Complete form as instructed	
Attachments	Project Narrative Supporting Documentation Technical Abstract Lay Abstract	
Personal Data	Complete form as instructed	
Senior/Key Person Profile	Biographical Sketch Previous/Current/Pending Support	
Budget (Extramural only)	Complete as instructed. Attach Budget Justification.	
Performance Site Locations Form	Complete form as instructed	
Subaward Budget Attachments	Complete form as instructed	



# **FY20 VRP Program Cycle**



3. Review Process

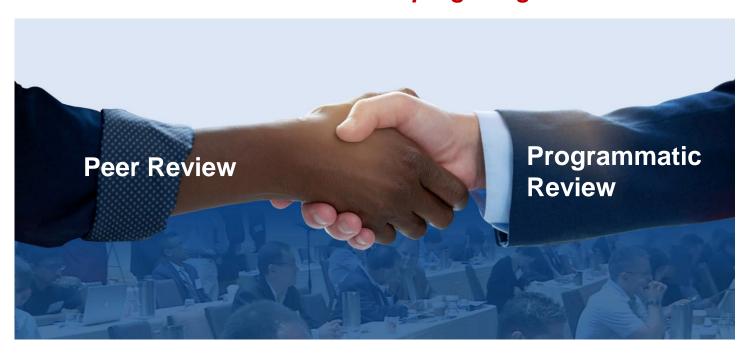






## **Goal of the Two-Tier Review Process**

# To find scientifically meritorious proposals and fund those that best fulfill program goals







## First Tier: Peer Review

## » How the evaluation process works

- » Technical merit assessment based on an ideal application
- » Criteria-based evaluation of entire application

### » Peer reviewers

- » Scientists, clinicians, consumers, specialists (e.g., statisticians and tech transfer specialists)
- » No standing panels
- » Recruited based on expertise needed
- » Identities are unknown to applicants; contact between applicants and reviewers are not permitted



Outcome: Summary Statements





## **Peer Review Criteria**

	IIRA	TRA	FTTSA
Scored (Equal Importance)	<ul> <li>Impact</li> <li>Research Idea</li> <li>Research Strategy</li> <li>Personnel</li> <li>Environment</li> </ul>	<ul> <li>Translational Potential</li> <li>Impact</li> <li>Research Idea</li> <li>Research Strategy</li> <li>Post-Award Transition Plan</li> <li>Personnel</li> <li>Environment</li> </ul>	<ul> <li>Overarching Challenge</li> <li>Overall Strategy</li> <li>Impact</li> <li>Team and Personnel</li> <li>Implementation Plan</li> <li>Project-Specific Strategy</li> <li>Translation</li> <li>Post-Award Transition Plan</li> </ul>
Unscored	<ul><li>Budget</li><li>Data and Resource Sharing</li><li>Application Presentation</li></ul>		<ul><li>Environment</li><li>Budget</li><li>Data and Resource Sharing</li><li>Application Presentation</li></ul>



# Writing Proposals with Reviews in Mind

#### TABLE OF CONTENTS

I. OVERVIEW OF THE FUNDING OPPORTUNITY	
II. DETAILED INFORMATION ABOUT THE FUNDING OPPORTUNITY	3
II.A. Program Description	3
II.A.1. FY20 VRP Focus Areas	
II.A.2. Award History	
II.B. Award Information	
II.C. Eligibility Information	
II.C.1. Eligible Applicants	7
II.C.2. Cost Sharing	8
II.C.3. Other	8
II.D. Application and Submission Information	
II.D.1. Address to Request Application Package	9
II.D.2. Content and Form of the Application Submission	9
II.D.3. Dun and Bradstreet Data Universal Numbering System (DUNS) Number	
System for Award Management (SAM)	
II.D.4. Submission Dates and Times	
II.D.5. Funding Restrictions	
II.D.6. Other Submission Requirements	
II.E. Application Review Information	
II.E.1. Criteria	
II.E.2. Application Review and Selection Process	
II.E.3. Integrity and Performance Information.	
II.E.4. Anticipated Announcement and Federal Award Dates	
II.F. Federal Award Administration Information	
II.F.1. Federal Award Notices	
II.F.2. Administrative and National Policy Requirements II.F.3. Reporting	
II.G. Federal Awarding Agency Contacts	
II.G.1. CDMRP Help Desk	
II.G.2. Grants.gov Contact Center	
II.H. Other Information.	
II.H. 1. Program Announcement and General Application Instructions Versions.	
II.H.2. Administrative Actions	
II.H.3. Application Submission Checklist	
APPENDIX 1: ACRONYM LIST	
ALLEMAN I. ACRONIM LIST	





## Writing Proposals with Reviews in Mind

#### II.D.2.b.ii. Full Application Submission Components

- Background/Rationale: Provide a sound scientific rationale for the proposed research.
- Funding Level 1: Describe the idea that the proposed research will explore and develop, clearly stating the objective(s) to be reached and/or the hypothesis(es) to be tested. Present sufficient literature to support the rationale for testing the idea. Explain how the proposed research has the potential to yield new avenues of investigation, such as new approaches, new research tools, or new paradigms. Preliminary data are allowed but not required.

#### II.E. Application Review Information

#### Research Idea

#### Funding Level 1:

- To what extent the idea of the proposed research, including the objective(s) and/or hypothesis(es), is based on sound rationale and critical analysis of literature.
- To what extent the proposed research has the potential to yield new avenues of investigation.





## **Second Tier: Programmatic Review**

- » How the evaluation process works
  - Comparison-based
  - Strong scientific merit
  - » Program relevance
    - » Adherence to award mechanism's intent
    - » Impact
    - » Relevance to military health
    - » Consideration of portfolio composition
- » Programmatic reviewers
  - » VRP Programmatic Panel
  - » Ad hoc reviewers



Outcome: Funding Recommendations

Involvement of Programmatic Panel member in the design or performance of the proposed project is PROHIBITED and would result in ADMINISTRATIVE WITHDRAWAL





## **Programmatic Review Criteria**

- » Ratings and evaluations of the peer reviewers
- » Relevance to the mission of the DHP and FY20 VRP, as evidenced by the following:
  - » Adherence to the intent of the award mechanism
  - » Relative impact
  - » Relevance to military health Check out Resource Document!
  - » Program portfolio composition





## **Funding Opportunities Beyond the VRP**

- » Small Business Innovative Research (SBIR) Program
  - » SBIR topics posted on DoD SBIR/STTR Portal
- » Broad Agency Announcement (BAA)
  - » Posted on Grants.gov
  - » Current active BAA: W81XWH18SBAA1 (closing date September 30, 2022)
  - » Check Appendix 1 for Research Areas of Interest

» Request for Information (RFI) / Request for Project Proposals (RPP)

Example: a portable ocular diagnostic device/system RFI, posted April 18, 2019

Subject: JUST RELEASED! FY19 DoD USAMMDA RFI

This email is to notify the medical research and development (R&D) community of a recently released Fiscal Year 2019 Request for Information (RFI) for the Department of Defense (<u>DoD</u>) U.S. Army Medical Materiel Development Activity (USAMMDA) for a portable ocular diagnostic device / system. This RFI is issued solely for information and planning purposes.

The USAMMDA develops and delivers quality medical capabilities to protect, treat, and sustain the health of our Service Members. The USAMMDA enhances the <u>DoD</u> by facilitating further development of promising industry and academic efforts and reviews a broad spectrum of R&D efforts on an ongoing basis.

A detailed description of this RFI and the submission requirements can be found at the following website:

https://www.fbo.gov/index?s=opportunity&mode=form&id=3f13f034debc370664a49db195b242a8&tab=core&cview=0

Please do not respond directly to this message. To be added or removed from this email list please use the "Subscribe to program specific news and updates" or "Unsubscribe" links available at <a href="https://ebrap.org">https://ebrap.org</a>.

Coming soon on MTEC:
RPP on Temporary
Corneal Repair prototype





## Resources

#### » CDMRP Website

» https://cdmrp.army.mil/

#### » CDMRP Videos and Webinar Series

- » <a href="https://cdmrp.army.mil/pubs/video/CDMRP\_overview">https://cdmrp.army.mil/pubs/video/CDMRP\_overview</a>
- » <a href="https://cdmrp.army.mil/pubs/video/CDMRP\_fundingreviewprocess.as">https://cdmrp.army.mil/pubs/video/CDMRP\_fundingreviewprocess.as</a>
  px
- » <a href="https://cdmrp.army.mil/pubs/webinars/webinar\_series">https://cdmrp.army.mil/pubs/webinars/webinar\_series</a>

## » VRP Homepage

» https://cdmrp.army.mil/vrp/default

### » DoD SBIR/STTR Portal

» <a href="https://www.dodsbirsttr.mil/submissions/login">https://www.dodsbirsttr.mil/submissions/login</a>

#### » MTEC

» <u>https://www.mtec-sc.org/</u>