Applications to the Fiscal Year 2017 (FY17) Joint Program Committee-1 (JPC-1)/Medical Simulation and Information Sciences (MSIS) Research Program Utilizing Machine Learning and Artificial Intelligence for Medical Training Needs (MACH Learning) are being solicited for the Defense Health Agency (DHA) J9, Research and Development Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA). As directed by the Office of the Assistant Secretary of Defense for Health Affairs (OASD[HA]), the DHA manages the Defense Health Program (DHP) Research, Development, Test, and Evaluation (RDT&E) appropriation. The U.S. Army Medical Research and Materiel Command (USAMRMC) Congressionally Directed Medical Research Programs (CDMRP) provides Defense Medical Research and Development Program (DMRDP) management support for DHP core research program areas, including the JPC-1/MSIS. This Program Announcement/Funding Opportunity and subsequent awards will be managed and executed by CDMRP with strategic oversight from the JPC-1/MSIS.

The JPC-1/MSIS provides programmatic funding recommendations for OASD(HA) medical DHP RDT&E dollars related to medical training and education efforts to advance the development and integration of simulation-based medical training systems. The JPC-1/MSIS Medical Modeling, Simulation, and Training Steering Committee members provided the strategy for which this Program Announcement/Funding Opportunity’s topic was conceived.

FY17 Utilizing Machine Learning and Artificial Intelligence for Medical Training Needs (MACH Learning) Award – Preapplication Due February 3, 2017

http://cdmrp.army.mil/funding/dmrdp

Eligibility

- Independent investigators at all academic levels (or equivalent).
- An extramural investigator is defined as all those not included in the definition of intramural investigator below.

An intramural investigator is defined as a Department of Defense (DoD) military or civilian employee working within a DoD laboratory, DoD military treatment facility, or working in a DoD activity embedded within a civilian medical center.
Key Mechanism Requirements

- Seeks to support research to determine, define, and validate predictive machine learning modeling systems that predict early stages of training needs in order to eliminate the current culture of just-in-time training or not being able to offer refresher training in an efficient manner.
- Seeks metrics/evaluation criteria, the definition of those metrics/evaluation criteria, and specific measuring tools to obtain (collect) and potentially analyze the metrics/evaluation criteria needed to develop a sufficient algorithm for use in the prediction of training needs, both in the skill acquisition phase and in refresher training.

Funding

- Maximum funding of **$1,600,000** in total costs (direct plus indirect costs)
- Period of performance should not exceed 30 months.

Extramural Investigators and organizations must apply through Grants.gov.

Intramural investigators and organizations must apply through CDMRP eBRAP.

Go to:

Extramural Broad Agency announcement and General Submission Instructions

Intramural Program Announcement and General Application Instructions

Grants.gov Funding Opportunity Number W81XWH-17-R-MSI1

A pre-application is required and must be submitted through the electronic Biomedical Research Application Portal (eBRAP) at [https://eBRAP.org](https://eBRAP.org) prior to the pre-application deadline. All applications must conform to the final Program Announcements and General Application Instructions that will be available for electronic downloading from the Grants.gov website. The application package containing the required forms for each award mechanism will also be found on Grants.gov. A listing of all CDMRP funding opportunities can be obtained on the Grants.gov website by performing a basic search using CFDA Number 12.420.

Applications must be submitted through the federal government’s single-entry portal, [Grants.gov](https://www.grants.gov).

[Grants.gov - Home](https://www.grants.gov)

grants.gov

Grants.gov is your source to FIND and APPLY for federal grants. Grants.gov does not provide personal financial assistance.
Congressionally Directed Medical Research Programs

cdmrp.army.mil

About Us The CDMRP originated in 1992 via a Congressional appropriation to foster novel approaches to biomedical research in response to the expressed needs of its ...

For email notification when Program Announcements are released go to the CDMRP website (http://cdmrp.army.mil) and select Subscribe to Funding Opportunities & Program Communications. For more information about the DMRDP or other CDMRP-administered programs, please visit the CDMRP website (http://cdmrp.army.mil).

Point of Contact:

CDMRP Help Desk
301-682-5507
help@eBrap.org