



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER
INFORMATION TECHNOLOGY LABORATORY
WATERWAYS EXPERIMENT STATION, 3909 HALLS FERRY ROAD
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S: 25 April 2022

CEERD-IZP

1 February 2022

**MEMORANDUM FOR HIGH PERFORMANCE COMPUTING ADVISORY PANEL
(HPCAP)**

SUBJECT: Call for FY 2023 Department of Defense (DoD) Frontier Project Proposals

1. The DoD High Performance Computing Modernization Program (HPCMP) requests your assistance in gathering and prioritizing your Service/Agency FY 2023 DoD Frontier Project proposals. The HPCMP established DoD Frontier Projects to enable the exploration of research, development, testing, and evaluation (RDT&E), and acquisition engineering outcomes that would not be achievable using typically available HPCMP resources. Frontier Projects pursue outcomes aligned with DoD mission priorities and are supported by multi-year commitments of exceptional amounts of high performance computing computational resources.

2. The "Call for FY 2023 DoD Frontier Project Proposals" is enclosed (Encl 1). It will be sent to all active HPCMP users and will also be posted on the HPCMP website. Please note that in FY 2023, we will continue to award and execute two types of Frontier Projects: Foundational Research and Engineering projects and Applied Acquisition and Sustainment projects. Please feel free to further distribute this document to your Service/Agency organizations.

3. All Frontier proposals must be submitted through the applicable HPCAP principal. The second document (Encl 2), "Instructions for HPCAP Principals for Submission of FY 2023 DoD Frontier Project Proposal Packages," provides detailed guidance to you for submitting Frontier Project proposals (due by 25 April 2022).

4. I am asking for your assistance to ensure that the proposals submitted have a high potential to significantly impact DoD's RDT&E program and acquisition engineering communities, represent a broad range of computational technology areas, and shorten acquisition timelines. In addition, we continue previous years' interest in receiving proposals from key focus areas that have been identified as being of high interest within DoD: (a) hypersonic systems, (b) autonomous systems/artificial intelligence, (c) future vertical lift, (d) electromagnetic/microelectronics development and design, and (e) directed-energy systems. Finally, we are interested in proposals that will be able to leverage the program's investment in TS-SCI shared resources and the TI20 systems with significant GPGPU capabilities.

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5. My point of contact for the Frontier program is Mr. Michael Ausserer, Associate Director for Resource Management. He may be contacted by phone at 240-425-9057, or via e-mail at michael.f.ausserer.civ@mail.mil.

2 Encls

1. Call for FY 2023 DoD
Frontier Project Proposals
2. Instructions for HPCAP Principals

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Computing Modernization Program