Research Funding Opportunities

Organization: DOE Solicitation Name: Computational Chemical Sciences  Due Date: Pre-Application Dec. 2, 2020 and Full Feb. 08, 2021 Summary: Single-investigator applications are not responsive to the objectives of this FOA. CCS will support basic research to develop validated, open-source codes for modeling and simulation of complex chemical processes and phenomena that allow full use of emerging exascale and future planned DOE leadership-class computing capabilities. The focus for CCS is on developing capabilities that allow modeling and simulation of new or previously inaccessible complex chemical systems and/or provide dramatic improvement in fidelity, scalability, and throughput. Teams should bring together expertise in domain areas (e.g., electronic structure, chemical dynamics, statistical mechanics, etc.) and other areas important to advance computational tools such as data science, algorithm development, and software architectures. Priority will be given to efforts that address reaction chemistry across multiple scales in complex environments important in geosciences, catalysis, biochemistry, or electrochemistry. Link: https://www.grants.gov/web/grants/view-opportunity.html?oppId=329588

Organization: DARPA Solicitation Name: Information Innovation Office Due Date: Abstract Sept. 23, 2021 and Full Oct. 28, 2021  Summary: The mission of the Information Innovation Office (I2O) is to ensure enduring advantage for the U.S. and its allies across a broad range of information technologies through the advancement of core technical foundations as well as the design of novel application concepts based on these foundations. I2O’s core technical work ranges from artificial intelligence and data analysis to secure engineering and formal methods. Building on its core technical work, I2O programs also focus on overcoming technical challenges in bringing these technologies to the mission, addressing topics such as network security, cyber and multi-domain operations, human-system interaction, and assured autonomy. I2O programs are organized into four thrust areas: a. Profient artificial intelligence (AI), b. advantage in cyber operations, c. confidence in information domain, and d. resilient, adaptable, and secure systems. Link: https://beta.sam.gov/opp/b67c8910977b46f9828101812bb38617/view

Organization: NSF Solicitation Name: Addressing Systems Challenges Through Engineering Teams Due Date: Preliminary Proposal Jan. 25, 2021 and Full May 03, 2021 Summary: The ASCENT program is one of the principal strategic investments of ECCS, which emphasizes on new collaboration modalities among various subdisciplines of ECCS-supported research. The goal of the ASCENT program is to enable the ECCS-served engineering community to come together as interdisciplinary teams that address research problems that span across multiple sets of research threads. ASCENT projects are expected to be of much larger scope (in terms of budget, research vision, and work plan) than regular unsolicited projects supported by individual ECCS core programs. They are envisioned to have a significant impact on a variety of application domains including healthcare, homeland security, disaster mitigation, telecommunications, sustainable energy, environment, transportation, manufacturing, and other areas. Link: https://www.nsf.gov/pubs/2021/nsf21521/nsf21521.pdf