
December 17, 2020

Dear Dr. Arun Majumdar and DOE Transition Team Members:

The Energy Sciences Coalition (ESC) thanks you for your public service. As you prepare policy and funding recommendations for the incoming Biden Administration, ESC urges you to prioritize investments in the Department of Energy (DOE) Office of Science. The DOE Office of Science is critical to advancing the fundamental science and early-stage energy technologies necessary to achieve ambitious net-zero goals; developing Industries of the Future and emerging technologies; and maintaining the highly skilled science and technology workforce that is essential for the United States to compete globally.

Scientific breakthroughs and energy technology innovation are

accelerate the construction and upgrades of world-class scientific user facilities and maximize operations to support the more than 36,000 researchers from academia, industry and federal agencies that rely on these facilities for their science and engineering pursuits;
advance new, strategic investments in innovative high-risk, high-reward research areas, such as quantum science and technology, genomics and engineering biology, microelectronics, next-generation communications, accelerator and laser systems, and artificial intelligence and scientific machine learning, and
maintain and grow multi-disciplinary centers focused on addressing scientific grand challenges, such as Energy Frontier Research Centers, Bioenergy Research Centers, Energy Innovation Hubs, and national quantum information science research centers as well as artificial intelligence co-design and microelectronics research centers.

To help guide these investments, ESC strongly recommends following the advice on research priorities and infrastructure investments of the six DOE Office of Science federal advisor

The United States must maintain its leadership in science, technology and innovation, and the DOE Office of Science plays a pivotal and leading role in addressing this country's energy, national security, and environmental challenges. We look forward to working with you in advancing the critical missions of the DOE Office of Science.

Sincerely,

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Enclosed:

Appendix I: Additional information on the unique DOE Office of Science role in fundamental research, energy technology development, and maintaining a highly skilled workforce.

Appendix II: List of ESC members endorsing this statement.

APPENDIX I. DOE OFFICE OF SCIENCE CONTRIBUTIONS

Below is additional information on the important role of the DOE Office of Science:

Sponsor Vital Research: Office of Science is the largest government sponsor for basic research in the physical sciences. It 7(-)9(CONT)9(RI)11(B)7(U)-17(T)7(I)9(ONS)ITJET@.00000912 0 612 792 reW*nBTFs0F2 11.04

Ensure National Security: Office of Science facilities offer researchers from the National Nuclear Security Administration (NNSA),09.6sNational

APPENDIX II. ESC MEMBERSHIP

American Association for the Advancement of Science
American Association of Physicists in Medicine
American Association of Physics Teachers
American Astronomical Society
American Chemical Society
American Crystallographic Association
American Geophysical Union
American Geosciences Institute
American Institute of Physics
American Mathematical Society
American Nuclear Society
American Physical Society
American Society for Engineering Education
American Society of Agronomy
Acoustical Society of America (ASA)
American Society of Mechanical Engineers
American Society for Microbiology
American Society of Plant Biologists
American Vacuum Society
Arizona State University
Association of American Universities
Association of Public and Land-grant Universities
AVS ó The Society for Science and Technology of
Materials, Interfaces, and Processing
Battelle
Binghamton University
Biophysical Society
Boston University

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