



ENERGY SCIENCES COALITION

National Quantum Initiative Act Reauthorization Support Letter

November 30, 2023

On behalf of over 100 member organizations in the Energy Sciences Coalition (ESC), we want to express strong support for the Department of Energy provisions in the National Quantum Initiative Reauthorization Act (H.R. 6213). In particular, the DOE provisions ensure that the DOE Office of Science continues to play a leading role in advancing quantum science and technology for U.S. competitiveness, leverages the unique expertise and world-leading research facilities at DOE national laboratories and DOE-funded research universities, and expands public-private partnerships to accelerate innovation and future adoption.

We thank the Members and professional staff of the House Committee on Science, Space, and Technology for allowing ESC to provide policy and program recommendations for the DOE Office of Science in the Reauthorization bill, submitted in March 2013, and adopting many of its recommendations, including:

- maintaining a foundational research program in quantum information science (QIS);
- expanding the foundational QIS research program to include first use cases and application development;
- renewing and increasing funding authorization for the 5 DOE National Quantum Information Science Research Centers;
- consolidating quantum networking and quantum user program provisions from the *CHIPS and Science Act* to ensure a comprehensive QIS program;
- expanding quantum computing, networking, and communications initiatives, including new partnerships with the National Aeronautics and Space Administration;
- creating a new quantum science and technology instrumentation and infrastructure program, and
- including language to strengthen coordination between DOE STEM and workforce development activities at the DOE quantum centers and national laboratories with the new National Science Foundation Education and Workforce Hub.

The Energy Sciences Coalition (ESC) is a broad-based coalition of organizations representing scientists, engineers and mathematicians in universities, industry and national laboratories who are committed to supporting and advancing the scientific research programs of the U.S. Department of Energy (DOE), and in particular, the DOE Office of Science.

Collectively, these provisions will help the U.S. maintain a quantum advantage and start to explore early applications of this nascent technology that could have broad impacts in national security, telecommunications, health, finance, and energy. As the Committee and Congress advance the legislation, we urge the inclusion of provisions that further strengthen STEM education and workforce development for QIS. For example, ESC recommends a dedicated traineeship in QIS to help train the workforce. This type of program would provide classroom training and research opportunities to undergraduates, graduate students, and post docs; connect students to DOE national labs and industry partners for career development; and address unique DOE mission needs.

Thank you for advancing this critically important legislation.

Sincerely,

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ESC Membership

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 Public and Land-grant Universities
AVS – The Society for Science and Technology of Materials,
Interfaces, and Processing
Battelle
Binghamton University
Biophysical Society
Boston University
Case Western Reserve University
City College of CUNY
Clemson University
Coalition for Academic Scientific Computation (CASC)
Consortium for Ocean Leadership
Columbia University
Computing Research Association
Council of Scientific Society Presidents
Cornell University
Cray Inc.
Crop Science Society of America
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George Mason University
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Michigan Technological University
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Northern Illinois University
Northwestern University
Oak Ridge Associated Universities (ORAU)
Optica (formerly OSA)
Pace University
Penn State University
Princeton University
Purdue University
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Rochester Institute of Technology
Rutgers, The State University of New Jersey
Society for Industrial and Applied Mathematics
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South Dakota School of Mines
Southeastern Universities Research Association
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