



The Under Secretary for Science

Washington, DC 20585

April 1, 2026

Dr. Persis Drell
Chair
Office of Science Advisory Committee

Dear Dr. Drell:

Quantum technologies promise transformative advances in materials discovery, chemistry, communications, sensing, and computation and are of high importance across all programs and facilities of the United States (U.S.) Department of Energy's (DOE) Office of Science (SC) now and into the future. In particular, quantum computing is emerging as an important and practical application of foundational research in quantum technologies.

I am asking the SC Advisory Committee (SCAC) to form a subcommittee to further study how best to prioritize resources, strengthen U.S. leadership, and accelerate scientific discovery in quantum computing by providing a roadmap to identify the near-term steps to a concrete 2028 goal of an error-corrected quantum computer with sufficient scale to enable revolutionary scientific advances. The roadmap should include a rigorous assessment of the current landscape identifying critical scientific targets and technical opportunities and gaps and should suggest milestone-based investments. The subcommittee's work should consider opportunities to create public-private partnerships leveraging DOE capabilities, private sector advances, and other agency resources to maximize impact.

The subcommittee shall provide an assessment of the current landscape and a near term roadmap by July 2026 to the SCAC for deliberation based on the subcommittee's expertise and inclusive and broad stakeholder input. Further charges will follow the endorsement of the road map. As I anticipate the subcommittee's work may involve making recommendations about infrastructure and facilities needs relevant for quantum computing applications, the subcommittee shall coordinate with the SCAC or any subcommittees thereof (i.e., the Facilities Subcommittee) that are charged with making recommendations about SC's facilities needs.

Sincerely,

A handwritten signature in black ink that reads "Darío Gil".

Darío Gil
Under Secretary for Science