



LIMITED SUBMISSION

The Division of Research announces limited submissions on their website and coordinates the internal review process to identify the institution's nominee.

Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering and Information

Deadlines

Internal deadline: August 20
Letter of intent due: September 17
Agency deadline: November 5
Limit: 1

The Division of Materials Research (DMR), the Division of Mathematical Sciences (DMS), the Division of Electrical, Communications and Cyber Systems (ECCS), and the Office of Advanced Cyberinfrastructure (OAC) seek to rapidly accelerate quantum materials design, synthesis, characterization, and translation of fundamental materials engineering and information research for quantum devices, systems, and networks. The new program of Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering, and Information (Q-AMASE-i) aims to support these goals by establishing Foundries with mid-scale infrastructure for rapid prototyping and development of quantum materials and devices. The new materials, devices, tools and methods developed by Q-AMASE-i will be shared with the science and engineering communities through a Foundry-operated network. Technology transfer of Foundry activities will be enabled by close cooperation with industrial partners.

Six-year awards totaling \$20,000,000 to \$25,000,000 for the award period are anticipated. Q-AMASE-i Foundries will be awarded as cooperative agreements with an initial commitment of six years, with the possibility of one six-year renewal, subsequent to a rigorous and favorable review by NSF. The annual performance review includes NSF's evaluation of the annual report after the first year, an annual site visit after the second and fourth year of Foundry activities, and a reverse or program management site visit after the third and fifth year. Funding after the second year will depend on the quality of progress and performance documented during the site visits

Anticipated Type of Award: Cooperative Agreement.

Estimated Number of Awards: 1 to 5; the final number of awards will depend on the availability of funds and the quality of the proposals.

Anticipated Funding Amount: \$20,000,000 to \$25,000,000

Awards totaling \$20,000,000 to \$25,000,000 over a six year period are anticipated. The budget must be commensurate with the scope of the project and thoroughly justified in the proposal. Annual budget may not exceed \$7,000,000 in any of the award years.

Limit on Number of Proposals per Organization: 1

One (1) per organization as lead institution. Potential PIs are advised to contact their Sponsored Projects Office regarding processes used to select proposals for submission. In case of multiple submissions from the same institution, only the first submission will be considered, and all subsequent submissions will be returned without review.

To download the solicitation, click [here](#).

For details and to submit an internal application, click [here](#).