

shall seek to enter into partnerships with industry groups to facilitate the translation and transfer of research results produced by the Centers.

(7) Coordination

The Secretary shall—

(A) establish a coordinating network to coordinate cross-cutting research and foster communication and collaboration among the Centers; and

(B) ensure coordination, and avoid unnecessary duplication, of the activities of each Center with the activities of—

(i) other research entities of the Department, including—

(I) the Nanoscale Science Research Centers;

(II) the National Quantum Information Science Research Centers;

(III) the Energy Frontier Research Centers;

(IV) the Energy Innovation Hubs;

(V) the National Laboratories; and

(VI) other offices of the Department;

(ii) the National Semiconductor Technology Center established under section 4656(c)(1) of title 15;

(iii) institutions of higher education;

(iv) industry; and

(v) relevant research activities carried out by other Federal agencies.

(8) Workforce development

Each Center shall support workforce development through—

(A) incorporation of undergraduate students, postdoctoral fellows, graduate students, and early career researchers, as well as elementary school, secondary school, and high school students, through opportunities such as dual-enrollment programs and work-based learning programs, as applicable;

(B) hands-on research and equipment training programs;

(C) technical training and certificate programs for the skilled technical workforce;

(D) facilitation of engagement among academic, industry, and laboratory researchers; and

(E) public outreach activities, including to students at elementary school, secondary school, high school, undergraduate, and graduate levels, which may include educational programming with an emphasis on experiential and project-based learning.

(9) Outreach

The Director shall support the workforce development of Centers under paragraph (8) by conducting outreach to recruit applicants and engage participants from all regions of the United States, especially individuals from underserved communities and groups historically underrepresented in science, technology, engineering, and mathematics.

(10) Intellectual property

The Secretary shall ensure that the intellectual property and value proposition created by the Centers are retained within the United States.

(11) Notification

(A) Definition of covered determination

In this paragraph, the term “covered determination” means a determination of the Secretary—

(i) to establish a Center under paragraph (1);

(ii) to renew support for a Center under paragraph (5)(A)(ii); or

(iii) to terminate a Center under paragraph (5)(B).

(B) Notification

Not later than 30 days after the Secretary makes a covered determination, the Secretary shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a notification of the covered determination, including—

(i) the criteria used by the Secretary to make the covered determination; and

(ii) the manner in which the criteria described in clause (i) comport with the purposes of the program described in paragraph (1).

(12) Funding

Subject to the availability of appropriations, the Secretary shall use not more than \$25,000,000 to fund each Center for each of fiscal years 2023 through 2027.

(Pub. L. 117-167, div. B, title VI, §10731, Aug. 9, 2022, 136 Stat. 1711.)

PART J—APPLIED LABORATORIES INFRASTRUCTURE RESTORATION AND MODERNIZATION

§ 19341. Applied laboratories infrastructure restoration and modernization

(a) Definition of National Laboratory.

In this section, the term “National Laboratory” means—

(1) the National Renewable Energy Laboratory;

(2) the National Energy Technology Laboratory;

(3) the Idaho National Laboratory;

(4) the Savannah River National Laboratory;

(5) the Sandia National Laboratories;

(6) the Los Alamos National Laboratory; and

(7) the Lawrence Livermore National Laboratory.

(b) Restoration and modernization projects

(1) In general

The Secretary shall fund projects described in paragraph (2) as needed to address the deferred maintenance, critical infrastructure needs, and modernization of National Laboratories.

(2) Projects described

The projects referred to in paragraph (1) are, as determined by the Secretary—

(A) priority deferred maintenance projects at National Laboratories, including facilities sustainment for, upgrade of, and construction of research laboratories, adminis-

trative and support buildings, utilities, roads, power plants, and any other critical infrastructure; and

(B) lab modernization projects at National Laboratories, including projects relating to core infrastructure needed—

(i) to support existing and emerging science missions with new and specialized requirements for world-leading scientific user facilities and computing capabilities; and

(ii) to maintain safe, efficient, reliable, and environmentally responsible operations, including pilot projects to demonstrate net-zero emissions with resilient operations.

(3) Approach

In carrying out paragraph (1), the Secretary shall use all available approaches and mechanisms, as the Secretary determines to be appropriate, including—

- (A) capital line items;
- (B) minor construction projects;
- (C) energy savings performance contracts;
- (D) utility energy service contracts;
- (E) alternative financing; and
- (F) expense funding.

(c) Submission to Congress

For each fiscal year through fiscal year 2027, at the same time as the annual budget submission of the President, the Secretary shall submit to the Committee on Appropriations and the Committee on Energy and Natural Resources of the Senate and the Committee on Appropriations and the Committee on Science, Space, and Technology of the House of Representatives a list of projects for which the Secretary will provide funding under this section, including a description of each project and the funding profile for the project.

(d) Authorization of appropriations

There is authorized to be appropriated to the Secretary to carry out the activities described in this section \$800,000,000 for each of fiscal years 2023 through 2027, of which, in each fiscal year—

(1) \$640,000,000 is authorized to be appropriated for projects at National Laboratories described in paragraphs (1) through (4) of subsection (a); and

(2) \$160,000,000 is authorized to be appropriated for projects at National Laboratories described in paragraphs (5) through (7) of that subsection.

(Pub. L. 117-167, div. B, title VI, § 10761, Aug. 9, 2022, 136 Stat. 1725.)

PART K—FISSION FOR THE FUTURE

§ 19351. Advanced nuclear technologies Federal research, development, and demonstration program

(a) Definitions

In this section:

(1) Advanced nuclear reactor

The term “advanced nuclear reactor” has the meaning given the term in section 16271(b) of this title.

(2) Eligible entity

The term “eligible entity” means each of—

- (A) a State;
- (B) an Indian Tribe (as defined in section 5304 of title 25);
- (C) a Tribal organization (as defined in section 5304 of title 25);
- (D) a unit of local government;
- (E) an electric utility (as defined in section 796 of title 16);
- (F) a National Laboratory (as defined in section 15801 of this title);
- (G) an institution of higher education (as defined in section 1001(a) of title 20); and
- (H) a private entity specializing in—
 - (i) advanced nuclear technology development;
 - (ii) nuclear supply chains; or
 - (iii) with respect to nuclear technologies and nonelectric applications of nuclear technologies, construction, project financing, contract structuring and risk allocation, or regulatory and licensing processes.

(3) Program

The term “program” means the program established under subsection (b)(1).

(4) Secretary

The term “Secretary” means the Secretary of Energy.

(b) Establishment of program

(1) In general

The Secretary shall establish a program to provide Federal financial assistance to eligible entities to support the research, development, demonstration, and deployment of advanced nuclear reactors and associated supply chain infrastructure.

(2) Competitive procedures

To the maximum extent practicable, the Secretary shall carry out the program using a competitive, merit-based review process that is consistent with section 16353 of this title.

(c) Applications

An eligible entity desiring Federal financial assistance under the program shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require.

(d) Priority

In selecting eligible entities to receive Federal financial assistance under the program, the Secretary shall give priority to eligible entities that—

(1) plan to carry out projects at or near the site of 1 or more fossil fuel electric generation facilities that are retired or scheduled to retire, including multi-unit facilities that are partially shut down—

(A) to support the productive reuse of fossil fuel electric generation facilities that are retired or scheduled to retire; and

(B) to sustain and revitalize communities impacted by the closure of fossil fuel electric generation facilities;

(2) plan to support nonelectric applications, including supplying heat for—