

(3) Conflicts of interest

Each Hub shall maintain conflict of interest procedures, consistent with the conflict of interest procedures of the Department.

(4) Prohibition on construction**(A) In general**

Except as provided in subparagraph (B)—

(i) no funds provided under this section may be used for construction of new buildings or facilities for Hubs; and

(ii) construction of new buildings or facilities shall not be considered as part of the non-Federal share of a Hub cost-sharing agreement.

(B) Test bed and renovation exception

Nothing in this paragraph prohibits the use of funds provided under this section or non-Federal cost share funds for the construction of a test bed or renovations to existing buildings or facilities for the purposes of research if the Secretary determines that the test bed or renovations are limited to a scope and scale necessary for the research to be conducted.

(Pub. L. 115-246, title II, §206, Sept. 28, 2018, 132 Stat. 3137.)

SUBCHAPTER III—DEPARTMENT OF
ENERGY OFFICE OF SCIENCE POLICY

§ 18641. Basic energy sciences**(a) Energy Frontier Research Centers****(1) In general**

The Director shall carry out a program to provide awards, on a competitive, merit-reviewed basis, to multi-institutional collaborations or other appropriate entities to conduct fundamental and use-inspired energy research to accelerate scientific breakthroughs.

(2) Collaborations

A collaboration receiving an award under this subsection may include multiple types of institutions and private sector entities.

(3) Selection and duration**(A) In general**

A collaboration under this subsection shall be selected for a period of 4 years.

(B) Existing centers

An Energy Frontier Research Center in existence and supported by the Director on September 28, 2018, may continue to receive support for a period of 4 years beginning on the date of establishment of that center.

(C) Reapplication

After the end of the period described in subparagraph (A) or (B), as applicable, a recipient of an award may reapply for selection on a competitive, merit-reviewed basis.

(D) Termination

Consistent with the existing authorities of the Department, the Director may terminate an underperforming center for cause during the performance period.

(4) No funding for construction

No funding provided pursuant to this subsection may be used for the construction of new buildings or facilities.

(b) Basic energy sciences user facilities**(1) In general**

The Director shall carry out a program for the development, construction, operation, and maintenance of national user facilities.

(2) Requirements

To the maximum extent practicable, the national user facilities developed, constructed, operated, or maintained under paragraph (1) shall serve the needs of the Department, industry, the academic community, and other relevant entities to create and examine materials and chemical processes for the purpose of improving the competitiveness of the United States.

(3) Included facilities

The national user facilities developed, constructed, operated, or maintained under paragraph (1) shall include—

(A) x-ray light sources;

(B) neutron sources;

(C) nanoscale science research centers; and

(D) such other facilities as the Director considers appropriate, consistent with section 7139 of this title.

(c) Accelerator research and development

The Director shall carry out research and development on advanced accelerator and storage ring technologies relevant to the development of basic energy sciences user facilities, in consultation with the High Energy Physics and Nuclear Physics programs of the Office of Science.

(Pub. L. 115-246, title III, §303(a)–(c), Sept. 28, 2018, 132 Stat. 3140, 3141.)

§ 18642. Advanced scientific computing research**(a) Omitted****(b) High-performance computing and networking research**

The Director shall support research in high-performance computing and networking relevant to energy applications, including modeling, simulation, and advanced data analytics for basic and applied energy research programs carried out by the Secretary.

(c) Applied mathematics and software development for high-end computing systems

The Director shall carry out activities to develop, test, and support—

(1) mathematics, models, and algorithms for complex systems and programming environments; and

(2) tools, languages, and operating systems for high-end computing systems (as defined in section 5541 of title 15).

(Pub. L. 115-246, title III, §304, Sept. 28, 2018, 132 Stat. 3145.)

CODIFICATION

Section is comprised of section 304 of Pub. L. 115-246. Subsec. (a) of section 304 of Pub. L. 115-246 amended sections 16316 of this title, sections 5541 and 5542 of Title 15, Commerce and Trade, and provisions set out as a note under section 5501 of Title 15.

§ 18643. High-energy physics**(a) Sense of Congress**

It is the sense of Congress that—