

service is extended by the President. The President shall designate two co-chairs from among the members of the Committee. A co-chair may serve for a term of 2 years or until the end of his or her service as a member of the Committee, whichever is the shorter period.

SEC. 2. Functions. (a) The Committee shall provide the National Science and Technology Council (NSTC), through the Director of the Office of Science and Technology Policy (“Director”), with advice and information on high-performance computing and communications, information technology, and the Next Generation Internet. The Committee shall provide an independent assessment of:

- (1) progress made in implementing the High-Performance Computing and Communications (HPCC) Program;
- (2) progress in designing and implementing the Next Generation Internet initiative;
- (3) the need to revise the HPCC Program;
- (4) balance among components of the HPCC Program;
- (5) whether the research and development undertaken pursuant to the HPCC Program is helping to maintain United States leadership in advanced computing and communications technologies and their applications; and
- (6) other issues as specified by the Director.

(b) The Committee shall carry out its responsibilities under the Research Act in the manner described in the Research Act.

SEC. 3. Administration. To the extent permitted by law and subject to the availability of appropriations, the Department of Defense shall provide the financial and administrative support for the Committee. Further, the Director of the National Coordination Office for Computing Information, and Communications (“Director of the NCO”) shall provide such coordination and technical assistance to the Committee as the co-chairs of the Committee may request.

(a) The heads of executive agencies shall, to the extent permitted by law, provide to the Committee such information as it may require for the purpose of carrying out its functions.

(b) The co-chairs may, from time to time, invite experts to submit information to the Committee and may form subcommittees or working groups within the Committee to review specific issues.

(c) Members of the Committee shall serve without compensation but shall be allowed travel expenses, including per diem in lieu of subsistence, as authorized by law for persons serving intermittently in the Government service (5 U.S.C. 5701–5707).

SEC. 4. General. (a) Notwithstanding any other Executive order, the functions of the President under the Federal Advisory Committee Act, as amended [see 5 U.S.C. 1001 et seq.], except that of reporting to the Congress, that are applicable to the Committee shall be performed by the Director of the NCO in accordance with guidelines that have been issued by the Administrator of General Services.

(b) The Committee shall terminate June 1, 2005, unless extended by the President prior to such date.

§ 5512. Grand Challenges in areas of national importance

(a) In general

The Program shall encourage the participating agencies to support foundational, large-scale, long-term, interdisciplinary, and inter-agency information technology research and development activities in networking and information technology directed toward agency mission areas that have the potential for significant contributions to national economic competitiveness and for other significant societal benefits. Such activities, ranging from basic research to the demonstration of technical solutions, shall be designed to advance the development of fundamental discoveries. The advisory committee

established under section 5511(b) of this title shall make recommendations to the Program for candidate research and development areas for support under this section.

(b) Characteristics

(1) In general

Research and development activities under this section shall—

(A) include projects selected on the basis of applications for support through a competitive, merit-based process;

(B) to the extent practicable, involve collaborations among researchers in institutions of higher education and industry, and may involve nonprofit research institutions and Federal laboratories, as appropriate;

(C) to the extent practicable, leverage Federal investments through collaboration with related State and private sector initiatives; and

(D) include a plan for fostering the transfer of research discoveries and the results of technology demonstration activities, including from institutions of higher education and Federal laboratories, to industry for commercial development.

(2) Cost-sharing

In selecting applications for support, the agencies may give special consideration to projects that include cost sharing from non-Federal sources.

(Pub. L. 102–194, title I, §102, as added Pub. L. 114–329, title I, §105(i), Jan. 6, 2017, 130 Stat. 2982.)

Editorial Notes

PRIOR PROVISIONS

A prior section 5512, Pub. L. 102–194, title I, §102, Dec. 9, 1991, 105 Stat. 1598, related to the National Research and Education Network, prior to repeal by Pub. L. 114–329, title I, §105(g), Jan. 6, 2017, 130 Stat. 2982.

§ 5513. Repealed. Pub. L. 114–329, title I, § 105(h), Jan. 6, 2017, 130 Stat. 2982

Section, Pub. L. 102–194, title I, §103, as added Pub. L. 105–305, §5, Oct. 28, 1998, 112 Stat. 2921; amended Pub. L. 106–65, div. A, title X, §1067(20), Oct. 5, 1999, 113 Stat. 775, related to the Next Generation Internet program.

SUBCHAPTER II—AGENCY ACTIVITIES

§ 5521. National Science Foundation activities

As part of the Program described in subchapter I—

(1) the National Science Foundation shall provide high-end computing and networking infrastructure support for all science and engineering disciplines, and support basic research and human resource development in all aspects of networking and information technology; and

(2) the National Science Foundation shall use its existing programs, in collaboration with other agencies, as appropriate, to improve the teaching and learning of networking and information technology at all levels of education and to increase participation in networking and information technology fields, in-