

113TH CONGRESS
1ST SESSION

H. R. 967

To amend the High-Performance Computing Act of 1991 to authorize activities for support of networking and information technology research, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MARCH 5, 2013

Mrs. LUMMIS (for herself, Mr. SMITH of Texas, and Ms. EDDIE BERNICE JOHNSON of Texas) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To amend the High-Performance Computing Act of 1991 to authorize activities for support of networking and information technology research, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Advancing America’s
5 Networking and Information Technology Research and
6 Development Act of 2013”.

7 **SEC. 2. PROGRAM PLANNING AND COORDINATION.**

8 (a) PERIODIC REVIEWS.—Section 101 of the High-
9 Performance Computing Act of 1991 (15 U.S.C. 5511)

1 is amended by adding at the end the following new sub-
2 section:

3 “(d) PERIODIC REVIEWS.—The agencies identified in
4 subsection (a)(3)(B) shall—

5 “(1) periodically assess the contents and fund-
6 ing levels of the Program Component Areas and re-
7 structure the Program when warranted, taking into
8 consideration any relevant recommendations of the
9 advisory committee established under subsection (b);
10 and

11 “(2) ensure that the Program includes large-
12 scale, long-term, interdisciplinary research and de-
13 velopment activities, including activities described in
14 section 104.”.

15 (b) DEVELOPMENT OF STRATEGIC PLAN.—Section
16 101 of such Act (15 U.S.C. 5511) is amended further by
17 adding after subsection (d), as added by subsection (a)
18 of this Act, the following new subsection:

19 “(e) STRATEGIC PLAN.—

20 “(1) IN GENERAL.—The agencies identified in
21 subsection (a)(3)(B), working through the National
22 Science and Technology Council and with the assist-
23 ance of the National Coordination Office described
24 under section 102, shall develop, within 12 months
25 after the date of enactment of the Advancing Amer-

1 ica’s Networking and Information Technology Re-
2 search and Development Act of 2013, and update
3 every 3 years thereafter, a 5-year strategic plan to
4 guide the activities described under subsection
5 (a)(1).

6 “(2) CONTENTS.—The strategic plan shall
7 specify near-term and long-term objectives for the
8 Program, the anticipated time frame for achieving
9 the near-term objectives, the metrics to be used for
10 assessing progress toward the objectives, and how
11 the Program will—

12 “(A) foster the transfer of research and
13 development results into new technologies and
14 applications for the benefit of society, including
15 through cooperation and collaborations with
16 networking and information technology re-
17 search, development, and technology transition
18 initiatives supported by the States;

19 “(B) encourage and support mechanisms
20 for interdisciplinary research and development
21 in networking and information technology, in-
22 cluding through collaborations across agencies,
23 across Program Component Areas, with indus-
24 try, with Federal laboratories (as defined in
25 section 4 of the Stevenson-Wydler Technology

1 Innovation Act of 1980 (15 U.S.C. 3703)), and
2 with international organizations;

3 “(C) address long-term challenges of na-
4 tional importance for which solutions require
5 large-scale, long-term, interdisciplinary research
6 and development;

7 “(D) place emphasis on innovative and
8 high-risk projects having the potential for sub-
9 stantial societal returns on the research invest-
10 ment;

11 “(E) strengthen all levels of networking
12 and information technology education and
13 training programs to ensure an adequate, well-
14 trained workforce; and

15 “(F) attract more women and underrep-
16 resented minorities to pursue postsecondary de-
17 grees in networking and information tech-
18 nology.

19 “(3) NATIONAL RESEARCH INFRASTRUC-
20 TURE.—The strategic plan developed in accordance
21 with paragraph (1) shall be accompanied by mile-
22 stones and roadmaps for establishing and maintain-
23 ing the national research infrastructure required to
24 support the Program, including the roadmap re-
25 quired by subsection (a)(2)(E).

1 “(4) RECOMMENDATIONS.—The entities in-
2 volved in developing the strategic plan under para-
3 graph (1) shall take into consideration the rec-
4 ommendations—

5 “(A) of the advisory committee established
6 under subsection (b); and

7 “(B) of the stakeholders whose input was
8 solicited by the National Coordination Office, as
9 required under section 102(b)(3).

10 “(5) REPORT TO CONGRESS.—The Director of
11 the National Coordination Office shall transmit the
12 strategic plan required under paragraph (1) to the
13 advisory committee, the Committee on Commerce,
14 Science, and Transportation of the Senate, and the
15 Committee on Science, Space, and Technology of the
16 House of Representatives.”.

17 (c) ADDITIONAL RESPONSIBILITIES OF DIRECTOR.—
18 Section 101(a)(2) of such Act (15 U.S.C. 5511(a)(2)) is
19 amended—

20 (1) in subparagraph (A) by inserting “edu-
21 cation,” before “and other activities”;

22 (2) by redesignating subparagraphs (E) and
23 (F) as subparagraphs (F) and (G), respectively; and

24 (3) by inserting after subparagraph (D) the fol-
25 lowing new subparagraph:

1 “(E) encourage and monitor the efforts of the
2 agencies participating in the Program to allocate the
3 level of resources and management attention nec-
4 essary to ensure that the strategic plan under sub-
5 section (e) is developed and executed effectively and
6 that the objectives of the Program are met;”.

7 (d) ADVISORY COMMITTEE.—Section 101(b)(1) of
8 such Act (15 U.S.C. 5511(b)(1)) is amended—

9 (1) after the first sentence, by inserting the fol-
10 lowing: “The co-chairs of the advisory committee
11 shall meet the qualifications of committee member-
12 ship and may be members of the President’s Council
13 of Advisors on Science and Technology.”; and

14 (2) in subparagraph (D), by striking “high-per-
15 formance” and inserting “high-end”.

16 (e) REPORT.—Section 101(a)(3) of such Act (15
17 U.S.C. 5511(a)(3)) is amended—

18 (1) in subparagraph (C)—

19 (A) by striking “is submitted,” and insert-
20 ing “is submitted, the levels for the previous
21 fiscal year,”; and

22 (B) by striking “each Program Component
23 Area;” and inserting “each Program Compo-
24 nent Area and research area supported in ac-
25 cordance with section 104;”;

1 (2) in subparagraph (D)—

2 (A) by striking “each Program Component
3 Area,” and inserting “each Program Component
4 Area and research area supported in accordance with section 104,”;

5
6 (B) by striking “is submitted,” and inserting
7 “is submitted, the levels for the previous
8 fiscal year,”; and

9 (C) by striking “and” after the semicolon;

10 (3) by redesignating subparagraph (E) as sub-
11 paragraph (G); and

12 (4) by inserting after subparagraph (D) the fol-
13 lowing new subparagraphs:

14 “(E) include a description of how the objectives
15 for each Program Component Area, and the objec-
16 tives for activities that involve multiple Program
17 Component Areas, relate to the objectives of the
18 Program identified in the strategic plan required
19 under subsection (e);

20 “(F) include—

21 “(i) a description of the funding required
22 by the National Coordination Office to perform
23 the functions specified under section 102(b) for
24 the next fiscal year by category of activity;

1 “(ii) a description of the funding required
2 by such Office to perform the functions speci-
3 fied under section 102(b) for the current fiscal
4 year by category of activity; and

5 “(iii) the amount of funding provided for
6 such Office for the current fiscal year by each
7 agency participating in the Program; and”.

8 (f) DEFINITION.—Section 4 of such Act (15 U.S.C.
9 5503) is amended—

10 (1) by redesignating paragraphs (1) through
11 (7) as paragraphs (2) through (8), respectively;

12 (2) by inserting before paragraph (2), as so re-
13 designated, the following new paragraph:

14 “(1) ‘cyber-physical systems’ means physical or
15 engineered systems whose networking and informa-
16 tion technology functions and physical elements are
17 deeply integrated and are actively connected to the
18 physical world through sensors, actuators, or other
19 means to perform monitoring and control func-
20 tions;”;

21 (3) in paragraph (3), as so redesignated, by
22 striking “high-performance computing” and insert-
23 ing “networking and information technology”;

24 (4) in paragraph (4), as so redesignated—

1 (A) by striking “high-performance com-
2 puting” and inserting “networking and infor-
3 mation technology”; and

4 (B) by striking “supercomputer” and in-
5 serting “high-end computing”;

6 (5) in paragraph (6), as so redesignated, by
7 striking “network referred to as” and all that fol-
8 lows through the semicolon and inserting “network,
9 including advanced computer networks of Federal
10 agencies and departments;”; and

11 (6) in paragraph (7), as so redesignated, by
12 striking “National High-Performance Computing
13 Program” and inserting “networking and informa-
14 tion technology research and development program”.

15 **SEC. 3. LARGE-SCALE RESEARCH IN AREAS OF NATIONAL**
16 **IMPORTANCE.**

17 Title I of such Act (15 U.S.C. 5511) is amended by
18 adding at the end the following new section:

19 **“SEC. 104. LARGE-SCALE RESEARCH IN AREAS OF NA-**
20 **TIONAL IMPORTANCE.**

21 “(a) IN GENERAL.—The Program shall encourage
22 agencies identified in section 101(a)(3)(B) to support
23 large-scale, long-term, interdisciplinary research and de-
24 velopment activities in networking and information tech-
25 nology directed toward application areas that have the po-

1 tential for significant contributions to national economic
2 competitiveness and for other significant societal benefits.
3 Such activities, ranging from basic research to the dem-
4 onstration of technical solutions, shall be designed to ad-
5 vance the development of research discoveries. The advi-
6 sory committee established under section 101(b) shall
7 make recommendations to the Program for candidate re-
8 search and development areas for support under this sec-
9 tion.

10 “(b) CHARACTERISTICS.—

11 “(1) IN GENERAL.—Research and development
12 activities under this section shall—

13 “(A) include projects selected on the basis
14 of applications for support through a competi-
15 tive, merit-based process;

16 “(B) involve collaborations among re-
17 searchers in institutions of higher education
18 and industry, and may involve nonprofit re-
19 search institutions and Federal laboratories, as
20 appropriate;

21 “(C) when possible, leverage Federal in-
22 vestments through collaboration with related
23 State initiatives; and

24 “(D) include a plan for fostering the trans-
25 fer of research discoveries and the results of

1 technology demonstration activities, including
2 from institutions of higher education and Fed-
3 eral laboratories, to industry for commercial de-
4 velopment.

5 “(2) COST-SHARING.—In selecting applications
6 for support, the agencies shall give special consider-
7 ation to projects that include cost sharing from non-
8 Federal sources.

9 “(3) AGENCY COLLABORATION.—If 2 or more
10 agencies identified in section 101(a)(3)(B), or other
11 appropriate agencies, are working on large-scale re-
12 search and development activities in the same area
13 of national importance, then such agencies shall
14 strive to collaborate through joint solicitation and se-
15 lection of applications for support and subsequent
16 funding of projects.

17 “(4) INTERDISCIPLINARY RESEARCH CEN-
18 TERS.—Research and development activities under
19 this section may be supported through interdiscipli-
20 nary research centers that are organized to inves-
21 tigate basic research questions and carry out tech-
22 nology demonstration activities in areas described in
23 subsection (a). Research may be carried out through
24 existing interdisciplinary centers, including those au-
25 thorized under section 7024(b)(2) of the America

1 COMPETES Act (Public Law 110–69; 42 U.S.C.
2 1862o–10).”.

3 **SEC. 4. CYBER-PHYSICAL SYSTEMS.**

4 (a) **ADDITIONAL PROGRAM CHARACTERISTICS.**—Sec-
5 tion 101(a)(1) of such Act (15 U.S.C. 5511(a)(1)) is
6 amended—

7 (1) in subparagraph (H), by striking “and”
8 after the semicolon;

9 (2) in subparagraph (I), by striking the period
10 at the end and inserting a semicolon; and

11 (3) by adding at the end the following new sub-
12 paragraphs:

13 “(J) provide for increased understanding of the
14 scientific principles of cyber-physical systems and
15 improve the methods available for the design, devel-
16 opment, and operation of cyber-physical systems
17 that are characterized by high reliability, safety, and
18 security; and

19 “(K) provide for research and development on
20 human-computer interactions, visualization, and big
21 data.”.

22 (b) **TASK FORCE.**—Title I of such Act (15 U.S.C.
23 5511) is amended further by adding after section 104, as
24 added by section 3 of this Act, the following new section:

1 **“SEC. 105. UNIVERSITY/INDUSTRY TASK FORCE.**

2 “(a) ESTABLISHMENT.—Not later than 180 days
3 after the date of enactment of the Advancing America’s
4 Networking and Information Technology Research and
5 Development Act of 2013, the Director of the National
6 Coordination Office shall convene a task force to explore
7 mechanisms for carrying out collaborative research and
8 development activities for cyber-physical systems, includ-
9 ing the related technologies required to enable these sys-
10 tems, through a consortium or other appropriate entity
11 with participants from institutions of higher education,
12 Federal laboratories, and industry.

13 “(b) FUNCTIONS.—The task force shall—

14 “(1) develop options for a collaborative model
15 and an organizational structure for such entity
16 under which the joint research and development ac-
17 tivities could be planned, managed, and conducted
18 effectively, including mechanisms for the allocation
19 of resources among the participants in such entity
20 for support of such activities;

21 “(2) propose a process for developing a re-
22 search and development agenda for such entity, in-
23 cluding guidelines to ensure an appropriate scope of
24 work focused on nationally significant challenges and
25 requiring collaboration and to ensure the develop-

1 ment of related scientific and technological mile-
2 stones;

3 “(3) define the roles and responsibilities for the
4 participants from institutions of higher education,
5 Federal laboratories, and industry in such entity;

6 “(4) propose guidelines for assigning intellec-
7 tual property rights and for the transfer of research
8 results to the private sector; and

9 “(5) make recommendations for how such enti-
10 ty could be funded from Federal, State, and non-
11 governmental sources.

12 “(c) COMPOSITION.—In establishing the task force
13 under subsection (a), the Director of the National Coordi-
14 nation Office—

15 “(1) shall appoint an equal number of individ-
16 uals with knowledge and expertise in cyber-physical
17 systems from—

18 “(A) institutions of higher education, in-
19 cluding minority-serving institutions and com-
20 munity colleges; and

21 “(B) industry; and

22 “(2) may appoint not more than 2 individuals
23 from Federal laboratories.

24 “(d) REPORT.—Not later than 1 year after the date
25 of enactment of the Advancing America’s Networking and

1 Information Technology Research and Development Act of
2 2013, the Director of the National Coordination Office
3 shall transmit to the Committee on Commerce, Science,
4 and Transportation of the Senate and the Committee on
5 Science, Space, and Technology of the House of Rep-
6 resentatives a report describing the findings and rec-
7 ommendations of the task force.

8 “(e) TERMINATION.—The task force shall terminate
9 upon transmittal of the report required under subsection
10 (d).

11 “(f) COMPENSATION.—Members of the task force
12 shall serve without compensation.”.

13 **SEC. 5. CLOUD COMPUTING SERVICES FOR RESEARCH.**

14 Title I of such Act (15 U.S.C. 5511) is amended fur-
15 ther by adding after section 105, as added by section 4(b)
16 of this Act, the following new section:

17 **“SEC. 106. CLOUD COMPUTING SERVICES FOR RESEARCH.**

18 “(a) INTERAGENCY WORKING GROUP.—Not later
19 than 180 days after the date of enactment of the Advanc-
20 ing America’s Networking and Information Technology
21 Research and Development Act of 2013, the Director of
22 the National Coordination Office, working through the
23 National Science and Technology Council, shall convene
24 an interagency working group to examine—

25 “(1) the research and development needed—

1 “(A) to enhance the effectiveness and effi-
2 ciency of cloud computing environments;

3 “(B) to increase the trustworthiness of
4 cloud applications and infrastructure; and

5 “(C) to enhance the foundations of cloud
6 architectures, programming models, and inter-
7 operability; and

8 “(2) the potential use of cloud computing for
9 federally funded science and engineering research,
10 including issues around funding mechanisms and
11 policies for the use of cloud computing services for
12 such research.

13 “(b) CONSULTATION.—In carrying out the tasks in
14 paragraphs (1) and (2) of subsection (a), the working
15 group shall consult with academia, industry, Federal lab-
16 oratories, and other relevant organizations and institu-
17 tions, as appropriate.

18 “(c) REPORT.—Not later than 1 year after the date
19 of enactment of the Advancing America’s Networking and
20 Information Technology Research and Development Act of
21 2013, the Director of the National Coordination Office
22 shall transmit to the Committee on Science, Space, and
23 Technology of the House of Representatives and the Com-
24 mittee on Commerce, Science, and Transportation of the

1 Senate a report describing the findings and any rec-
2 ommendations of the working group.

3 “(d) **TERMINATION.**—The interagency working group
4 shall terminate upon transmittal of the report required
5 under subsection (c).”.

6 **SEC. 6. NATIONAL COORDINATION OFFICE.**

7 Section 102 of such Act (15 U.S.C. 5512) is amended
8 to read as follows:

9 **“SEC. 102. NATIONAL COORDINATION OFFICE.**

10 “(a) **OFFICE.**—The Director shall continue a Na-
11 tional Coordination Office with a Director and full-time
12 staff.

13 “(b) **FUNCTIONS.**—The National Coordination Office
14 shall—

15 “(1) provide technical and administrative sup-
16 port to—

17 “(A) the agencies participating in planning
18 and implementing the Program, including such
19 support as needed in the development of the
20 strategic plan under section 101(e); and

21 “(B) the advisory committee established
22 under section 101(b);

23 “(2) serve as the primary point of contact on
24 Federal networking and information technology ac-
25 tivities for government organizations, academia, in-

1 industry, professional societies, State computing and
2 networking technology programs, interested citizen
3 groups, and others to exchange technical and pro-
4 grammatic information;

5 “(3) solicit input and recommendations from a
6 wide range of stakeholders during the development
7 of each strategic plan required under section 101(e)
8 through the convening of at least 1 workshop with
9 invitees from academia, industry, Federal labora-
10 tories, and other relevant organizations and institu-
11 tions;

12 “(4) conduct public outreach, including the dis-
13 semination of findings and recommendations of the
14 advisory committee, as appropriate; and

15 “(5) promote access to and early application of
16 the technologies, innovations, and expertise derived
17 from Program activities to agency missions and sys-
18 tems across the Federal Government and to United
19 States industry.

20 “(c) SOURCE OF FUNDING.—

21 “(1) IN GENERAL.—The operation of the Na-
22 tional Coordination Office shall be supported by
23 funds from each agency participating in the Pro-
24 gram.

1 “(2) SPECIFICATIONS.—The portion of the total
2 budget of such Office that is provided by each agen-
3 cy for each fiscal year shall be in the same propor-
4 tion as each such agency’s share of the total budget
5 for the Program for the previous fiscal year, as spec-
6 ified in the report required under section
7 101(a)(3).”.

8 **SEC. 7. IMPROVING NETWORKING AND INFORMATION**
9 **TECHNOLOGY EDUCATION.**

10 Section 201(a) of such Act (15 U.S.C. 5521(a)) is
11 amended—

12 (1) by redesignating paragraphs (2) through
13 (4) as paragraphs (3) through (5), respectively; and

14 (2) by inserting after paragraph (1) the fol-
15 lowing new paragraph:

16 “(2) the National Science Foundation shall use
17 its existing programs, in collaboration with other
18 agencies, as appropriate, to improve the teaching
19 and learning of networking and information tech-
20 nology at all levels of education and to increase par-
21 ticipation in networking and information technology
22 fields, including by women and underrepresented mi-
23 norities;”.

1 **SEC. 8. CONFORMING AND TECHNICAL AMENDMENTS.**

2 (a) SECTION 3.—Section 3 of such Act (15 U.S.C.
3 5502) is amended—

4 (1) in the matter preceding paragraph (1), by
5 striking “high-performance computing” and insert-
6 ing “networking and information technology”;

7 (2) in paragraph (1)—

8 (A) in the matter preceding subparagraph
9 (A), by striking “high-performance computing”
10 and inserting “networking and information
11 technology”;

12 (B) in subparagraphs (A), (F), and (G), by
13 striking “high-performance computing” each
14 place it appears and inserting “networking and
15 information technology”; and

16 (C) in subparagraph (H), by striking
17 “high-performance” and inserting “high-end”;
18 and

19 (3) in paragraph (2)—

20 (A) by striking “high-performance com-
21 puting and” and inserting “networking and in-
22 formation technology and”; and

23 (B) by striking “high-performance com-
24 puting network” and inserting “networking and
25 information technology”.

1 (b) TITLE I.—The heading of title I of such Act (15
2 U.S.C. 5511) is amended by striking “**HIGH-PER-**
3 **FORMANCE COMPUTING**” and inserting “**NET-**
4 **WORKING AND INFORMATION TECH-**
5 **NOLOGY**”.

6 (c) SECTION 101.—Section 101 of such Act (15
7 U.S.C. 5511) is amended—

8 (1) in the section heading, by striking “**HIGH-**
9 **PERFORMANCE COMPUTING**” and inserting
10 “**NETWORKING AND INFORMATION TECH-**
11 **NOLOGY RESEARCH AND DEVELOPMENT**”;

12 (2) in subsection (a)—

13 (A) in the subsection heading, by striking
14 “**NATIONAL HIGH-PERFORMANCE COMPUTING**”
15 and inserting “**NETWORKING AND INFORMA-**
16 **TION TECHNOLOGY RESEARCH AND DEVELOP-**
17 **MENT**”;

18 (B) in paragraph (1) of such subsection—

19 (i) in the matter preceding subpara-
20 graph (A), by striking “**National High-Per-**
21 **formance Computing Program**” and insert-
22 ing “**networking and information tech-**
23 **nology research and development pro-**
24 **gram**”;

1 (ii) in subparagraph (A), by striking
2 “high-performance computing, including
3 networking” and inserting “networking
4 and information technology”;

5 (iii) in subparagraphs (B) and (G), by
6 striking “high-performance” each place it
7 appears and inserting “high-end”; and

8 (iv) in subparagraph (C), by striking
9 “high-performance computing and net-
10 working” and inserting “high-end com-
11 puting, distributed, and networking”; and
12 (C) in paragraph (2) of such subsection—

13 (i) in subparagraphs (A) and (C)—

14 (I) by striking “high-performance
15 computing” each place it appears and
16 inserting “networking and information
17 technology”; and

18 (II) by striking “development,
19 networking,” each place it appears
20 and inserting “development,”; and

21 (ii) in subparagraphs (F) and (G), as
22 redesignated by section 2(c)(1) of this Act,
23 by striking “high-performance” each place
24 it appears and inserting “high-end”;

25 (3) in subsection (b)—

1 (A) in paragraph (1), in the matter pre-
2 ceding subparagraph (A), by striking “high-per-
3 formance computing” both places it appears
4 and inserting “networking and information
5 technology”; and

6 (B) in paragraph (2), in the second sen-
7 tence, by striking “2” and inserting “3”; and

8 (4) in subsection (c)(1)(A), by striking “high-
9 performance computing” and inserting “networking
10 and information technology”.

11 (d) SECTION 201.—Section 201(a)(1) of such Act
12 (15 U.S.C. 5521(a)(1)) is amended by striking “high-per-
13 formance computing” and all that follows through “net-
14 working;” and inserting “networking and information re-
15 search and development;”.

16 (e) SECTION 202.—Section 202(a) of such Act (15
17 U.S.C. 5522(a)) is amended by striking “high-perform-
18 ance computing” and inserting “networking and informa-
19 tion technology”.

20 (f) SECTION 203.—Section 203(a) of such Act (15
21 U.S.C. 5523(a)(1)) is amended—

22 (1) in paragraph (1), by striking “high-per-
23 formance computing and networking” and inserting
24 “networking and information technology”; and

1 (2) in paragraph (2)(A), by striking “high-per-
2 formance” and inserting “high-end”.

3 (g) SECTION 204.—Section 204 of such Act (15
4 U.S.C. 5524) is amended—

5 (1) in subsection (a)(1)—

6 (A) in subparagraph (A), by striking
7 “high-performance computing systems and net-
8 works” and inserting “networking and informa-
9 tion technology systems and capabilities”;

10 (B) in subparagraph (B), by striking
11 “interoperability of high-performance com-
12 puting systems in networks and for common
13 user interfaces to systems” and inserting
14 “interoperability and usability of networking
15 and information technology systems”; and

16 (C) in subparagraph (C), by striking
17 “high-performance computing” and inserting
18 “networking and information technology”; and

19 (2) in subsection (b)—

20 (A) in the heading, by striking “HIGH-
21 PERFORMANCE COMPUTING AND NETWORK”
22 and inserting “NETWORKING AND INFORMA-
23 TION TECHNOLOGY”; and

24 (B) by striking “sensitive”.

1 (h) SECTION 205.—Section 205(a) of such Act (15
2 U.S.C. 5525(a)) is amended by striking “computational”
3 and inserting “networking and information technology”.

4 (i) SECTION 206.—Section 206(a) of such Act (15
5 U.S.C. 5526(a)) is amended by striking “computational
6 research” and inserting “networking and information
7 technology research”.

8 (j) SECTION 207.—Section 207(b) of such Act (15
9 U.S.C. 5527(b)) is amended by striking “high-perform-
10 ance computing” and inserting “networking and informa-
11 tion technology”.

12 (k) SECTION 208.—Section 208 of such Act (15
13 U.S.C. 5528) is amended—

14 (1) in the section heading, by striking “**HIGH-**
15 **PERFORMANCE COMPUTING**” and inserting
16 “**NETWORKING AND INFORMATION TECH-**
17 **NOLOGY**”; and

18 (2) in subsection (a)—

19 (A) in paragraph (1), by striking “High-
20 performance computing and associated” and in-
21 serting “Networking and information”;

22 (B) in paragraph (2), by striking “high-
23 performance computing” and inserting “net-
24 working and information technologies”;

1 (C) in paragraph (3), by striking “high-
2 performance” and inserting “high-end”;

3 (D) in paragraph (4), by striking “high-
4 performance computers and associated” and in-
5 sserting “networking and information”; and

6 (E) in paragraph (5), by striking “high-
7 performance computing and associated” and in-
8 sserting “networking and information”.

○