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(Original Signature of Member)

114TH CONGRESS  
2D SESSION

**H. R.** \_\_\_\_\_

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

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IN THE HOUSE OF REPRESENTATIVES

Mr. LAHOOD introduced the following bill; which was referred to the  
Committee on \_\_\_\_\_

\_\_\_\_\_  
**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 “Networking and Infor-  
5 mation Technology Research and Development Moderniza-  
6 tion Act of 2016”.

1 **SEC. 2. PURPOSES.**

2 Section 3 of the High-Performance Computing Act  
3 of 1991 (15 U.S.C. 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 “expanding Federal support for  
10 research, development, and application of high-  
11 performance computing” and inserting “sup-  
12 porting Federal research, development, and ap-  
13 plication of networking and information tech-  
14 nology”;

15 (B) in subparagraph (A), by striking  
16 “high-performance computing” both places it  
17 appears and inserting “networking and infor-  
18 mation technology”;

19 (C) by striking subparagraphs (C) and  
20 (D);

21 (D) by inserting after subparagraph (B)  
22 the following:

23 “(C) stimulate research on and promote  
24 more rapid development of high-end computing  
25 and software;”;

1 (E) by redesignating subparagraphs (E)  
2 through (H) as subparagraphs (D) through  
3 (G), respectively;

4 (F) in subparagraph (D), as so redesign-  
5 ated, by inserting “high-end” after “the devel-  
6 opment of”;

7 (G) in subparagraphs (E) and (F), as so  
8 redesignated, by striking “high-performance  
9 computing” each place it appears and inserting  
10 “networking and information technology”; and

11 (H) in subparagraph (G), as so redesign-  
12 ated, by striking “high-performance” and in-  
13 serting “high-end”; and

14 (3) in paragraph (2)—

15 (A) by striking “high-performance com-  
16 puting and” and inserting “networking and in-  
17 formation technology and”; and

18 (B) by striking “high-performance com-  
19 puting network” and inserting “networking and  
20 information technology”.

21 **SEC. 3. DEFINITIONS.**

22 Section 4 of the High-Performance Computing Act  
23 of 1991 (15 U.S.C. 5503) is amended—

24 (1) by striking paragraphs (3) and (5);

1           (2) by redesignating paragraphs (1), (2), (4),  
2           (6), and (7) as paragraphs (2), (3), (5), (7), and  
3           (8), respectively;

4           (3) by inserting before paragraph (2), as so re-  
5           designated, the following new paragraph:

6           “(1) ‘cyber-physical systems’ means physical or  
7           engineered systems whose networking and informa-  
8           tion technology functions and physical elements are  
9           deeply integrated and are actively connected to the  
10          physical world through sensors, actuators, or other  
11          means to perform monitoring and control func-  
12          tions;”;

13          (4) in paragraph (3), as so redesignated, by  
14          striking “high-performance computing” and insert-  
15          ing “networking and information technology”;

16          (5) by inserting after paragraph (3), as so re-  
17          designated, the following new paragraph:

18          “(4) ‘high-end computing’ means the most ad-  
19          vanced and capable computing systems, including  
20          their hardware, storage, networking and software,  
21          encompassing both massive computational capability  
22          and large-scale data analytics;”;

23          (6) by inserting after paragraph (5), as so re-  
24          designated, the following new paragraph:

1           “(6) ‘networking and information technology’  
2           means high-end computing, communications, and in-  
3           formation technologies, high-capacity and high-speed  
4           networks, special purpose and experimental systems,  
5           high-end systems software, and the management of  
6           large data sets;” and

7           (7) in paragraph (7), as so redesignated, by  
8           striking “National High-Performance Computing  
9           Program” and inserting “Networking and Informa-  
10          tion Technology Research and Development Pro-  
11          gram”.

12 **SEC. 4. TITLE I HEADING.**

13          The heading of title I of such Act (15 U.S.C. 5511  
14 et seq.) is amended by striking “**HIGH-PERFORM-**  
15 **ANCE COMPUTING**” and inserting “**NET-**  
16 **WORKING AND INFORMATION TECH-**  
17 **NOLOGY**”.

18 **SEC. 5. NETWORKING AND INFORMATION TECHNOLOGY**  
19 **RESEARCH AND DEVELOPMENT PROGRAM.**

20          Section 101 of the High-Performance Computing Act  
21 of 1991 (15 U.S.C. 5511) is amended—

22          (1) in the section heading, by striking “**HIGH-**  
23 **PERFORMANCE COMPUTING**” and inserting  
24 “**NETWORKING AND INFORMATION TECH-**  
25 **NOLOGY RESEARCH AND DEVELOPMENT**”;

1 (2) in subsection (a)—

2 (A) in the subsection heading, by striking  
3 “NATIONAL HIGH-PERFORMANCE COMPUTING”  
4 and inserting “NETWORKING AND INFORMA-  
5 TION TECHNOLOGY RESEARCH AND DEVELOP-  
6 MENT”

7 (B) in paragraph (1)—

8 (i) in the matter preceding subpara-  
9 graph (A), by striking “National High-Per-  
10 formance Computing Program” and insert-  
11 ing “Networking and Information Tech-  
12 nology Research and Development Pro-  
13 gram”;

14 (ii) in subparagraph (A), by striking  
15 “high-performance computing, including  
16 networking” and inserting “networking  
17 and information technology”;

18 (iii) in subparagraphs (B) and (G), by  
19 striking “high-performance” each place it  
20 appears and inserting “high-end”;

21 (iv) in subparagraph (C), by striking  
22 “high-performance computing and net-  
23 working” and inserting “high-end com-  
24 puting, distributed, and networking”;

1 (v) by amending subparagraph (D) to  
2 read as follows:

3 “(D) provide for efforts to increase high-end  
4 software security and reliability;”;

5 (vi) in subparagraph (H)—

6 (I) by inserting “support and  
7 guidance” after “provide”; and

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

10 (vii) in subparagraph (I)—

11 (I) by striking “improving the se-  
12 curity” and inserting “improving the  
13 security, reliability, and resilience”;  
14 and

15 (II) by striking the period at the  
16 end and inserting a semicolon; and

17 (viii) by adding at the end the fol-  
18 lowing new subparagraphs:

19 “(J) provide for increased understanding of the  
20 scientific principles of cyber-physical systems and  
21 improve the methods available for the design, devel-  
22 opment, and operation of cyber-physical systems  
23 that are characterized by high reliability, safety, and  
24 security;

1           “(K) provide for research and development on  
2           human-computer interactions, visualization, and big  
3           data; and

4           “(L) provide for research and development on  
5           the enhancement of cybersecurity.”;

6                       (C) in paragraph (2)—

7                               (i) by amending subparagraph (A) to  
8                               read as follows:

9                               “(A) establish the goals and priorities for Fed-  
10                              eral networking and information technology re-  
11                              search, development, education, and other activi-  
12                              ties;”;

13                              (ii) by amending subparagraph (C) to  
14                              read as follows:

15                              “(C) provide for interagency coordination of  
16                              Federal networking and information technology re-  
17                              search, development, education, and other activities  
18                              undertaken pursuant to the Program;”;

19                              (iii) by amending subparagraph (E) to  
20                              read as follows:

21                              “(E) encourage and monitor the efforts of the  
22                              agencies participating in the Program to allocate the  
23                              level of resources and management attention nec-  
24                              essary to ensure that the strategic plan under sub-  
25                              section (e) is developed and executed effectively and

1 that the objectives of the Program are met; and”;  
2 and

3 (iv) in subparagraph (F), by striking  
4 “high-performance” and inserting “high-  
5 end”;

6 (D) in paragraph (3)—

7 (i) by redesignating subparagraphs  
8 (B), (C), (D), and (E) as subparagraphs  
9 (E), (F), (G), and (H), respectively;

10 (ii) by inserting after subparagraph  
11 (A) the following new subparagraphs:

12 “(B) provide, as appropriate, a list of the senior  
13 steering groups and strategic plans that are planned  
14 or underway as addressed under section 104;

15 “(C) provide a description of workshops and  
16 other activities conducted under section 104, includ-  
17 ing participants and findings;

18 “(D) provide a detailed description of the na-  
19 ture and scope of research infrastructure designated  
20 as such under the Program;”;

21 (iii) in subparagraph (E), as so redesi-  
22 gnated—

23 (I) by redesignating clauses (vii)  
24 through (xi) as clauses (viii) through  
25 (xii), respectively; and

1 (II) by inserting after clause (vi)  
2 the following:

3 “(vii) the Department of Homeland Secu-  
4 rity;”;

5 (iv) in subparagraph (F), as so redes-  
6 ignated—

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

10 (II) by striking “each Program  
11 Component Area;” and inserting  
12 “each Program Component Area and  
13 research area supported in accordance  
14 with section 103;”;

15 (v) by amending subparagraph (G), as  
16 so redesignated, to read as follows:

17 “(G) describe the levels of Federal funding for  
18 each agency and department participating in the  
19 Program, and for each Program Component Area  
20 supported in accordance with section 103, for the  
21 fiscal year during which such report is submitted,  
22 the levels for the previous fiscal year, and the levels  
23 proposed for the fiscal year with respect to which  
24 the budget submission applies;”;

1 (vi) in subparagraph (H), as so reded-  
2 igned, by striking the period and insert-  
3 ing a semicolon; and

4 (vii) by adding at the end the fol-  
5 lowing:

6 “(I) include a description of how the objectives  
7 for each Program Component Area , and the objec-  
8 tives for activities that involve multiple Program  
9 Component Areas, relate to the objectives of the  
10 Program identified in the strategic plan required  
11 under subsection (e); and

12 “(J) include—

13 “(i) a description of the funding required  
14 by the National Coordination Office to perform  
15 the functions specified under section 102(b) for  
16 the current fiscal year;

17 “(ii) a description of the estimated funding  
18 required by such Office to perform the func-  
19 tions specified under section 102(b) for the next  
20 fiscal year; and

21 “(iii) the amount of funding provided for  
22 such Office for the current fiscal year by each  
23 agency participating in the Program.”;

24 (3) in subsection (b)—

1 (A) in paragraph (1), in the matter pre-  
2 ceding subparagraph (A)—

3 (i) by striking “high-performance  
4 computing” both places it appears and in-  
5 serting “networking and information tech-  
6 nology”; and

7 (ii) after the first sentence, by insert-  
8 ing the following: “Each chair of the advi-  
9 sory committee shall meet the qualifica-  
10 tions of committee membership and may  
11 be a member of the President’s Council of  
12 Advisors on Science and Technology.”;

13 (B) in paragraph (1)(D), by striking  
14 “high-performance computing, networking tech-  
15 nology, and related software” and inserting  
16 “networking and information technology”; and

17 (C) in paragraph (2)—

18 (i) in the second sentence, by striking  
19 “2” and inserting “3”;

20 (ii) by striking “Committee on Science  
21 and Technology” and inserting “Com-  
22 mittee on Science, Space, and Tech-  
23 nology”; and

24 (iii) by striking “The first report shall  
25 be due within 1 year after the date of en-

1 actment of the America COMPETES  
2 Act.”;

3 (4) in subsection (c)(1)(A), by striking “high-  
4 performance computing” and inserting “networking  
5 and information technology”; and

6 (5) by adding at the end the following new sub-  
7 sections:

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

10 “(1) periodically assess and update, as appro-  
11 priate, the contents, scope, and funding levels of the  
12 Program Component Areas and work through the  
13 National Science and Technology Council and with  
14 the assistance of the National Coordination Office  
15 described under section 102 to restructure the Pro-  
16 gram when warranted, taking into consideration any  
17 relevant recommendations of the advisory committee  
18 established under subsection (b); and

19 “(2) working through the National Science and  
20 Technology Council and with the assistance of the  
21 National Coordination Office described under section  
22 102, ensure that the Program includes large-scale,  
23 long-term, interdisciplinary research and develop-  
24 ment activities, including activities described in sec-  
25 tion 103.

1 “(e) STRATEGIC PLAN.—

2 “(1) IN GENERAL.—The agencies identified in  
3 subsection (a)(3)(B), working through the National  
4 Science and Technology Council and with the assist-  
5 ance of the National Coordination Office described  
6 under section 102, shall develop, within 12 months  
7 after the date of enactment of the Networking and  
8 Information Technology Research and Development  
9 Modernization Act of 2016, and update every five  
10 years thereafter, a five-year strategic plan for the  
11 Program.

12 “(2) CONTENTS.—The strategic plan shall  
13 specify near-term and long-term cross-cutting objec-  
14 tives for the Program, the anticipated time frame  
15 for achieving the near-term objectives, the metrics to  
16 be used for assessing progress toward the objectives,  
17 and how the Program will—

18 “(A) address long-term challenges of na-  
19 tional importance for which solutions require  
20 large-scale, long-term, interdisciplinary research  
21 and development;

22 “(B) encourage and support mechanisms  
23 for interdisciplinary research and development  
24 in networking and information technology and  
25 for Grand Challenges, including through col-

1 laborations across agencies, across Program  
2 Component Areas, with industry, with Federal  
3 laboratories (as defined in section 4 of the Ste-  
4 venson-Wydler Technology Innovation Act of  
5 1980 (15 U.S.C. 3703)), and with international  
6 organizations;

7 “(C) foster the transfer of research and  
8 development results into new technologies and  
9 applications in the national interest, including  
10 through cooperation and collaborations with  
11 networking and information technology re-  
12 search, development, and technology transition  
13 initiatives supported by the States;

14 “(D) provide for cyberinfrastructure needs,  
15 as appropriate, across federally funded large-  
16 scale research facilities that produce or will  
17 produce large amounts of data that will need to  
18 be stored, curated, and made publicly available;

19 “(E) strengthen all levels of networking  
20 and information technology education and  
21 training programs to ensure an adequate, well-  
22 trained workforce; and

23 “(F) attract women and underrepresented  
24 students in networking and information tech-  
25 nology fields.

1           “(3) 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);

7                   “(B) of the Committee on Science and rel-  
8                   evant subcommittees of the National Science  
9                   and Technology Council; and

10                   “(C) of the stakeholders whose input was  
11                   solicited by the National Coordination Office, as  
12                   required under section 102(b)(3).

13           “(4) REPORT TO CONGRESS.—The Director of  
14           the National Coordination Office shall transmit the  
15           strategic plan required under paragraph (1) to the  
16           advisory committee, the Committee on Science,  
17           Space, and Technology of the House of Representa-  
18           tives, and the Committee on Commerce, Science, and  
19           Transportation of the Senate.”.

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

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

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

2       “(a) OFFICE.—The Director shall maintain a Na-  
3 tional Coordination Office with a Director and full-time  
4 staff.

5       “(b) FUNCTIONS.—The National Coordination Office  
6 shall—

7           “(1) provide technical and administrative sup-  
8 port to—

9               “(A) the agencies participating in planning  
10 and implementing the Program, including such  
11 support as needed in the development of the  
12 strategic plan under section 101(e); and

13               “(B) the advisory committee established  
14 under section 101(b), as appropriate;

15           “(2) serve as the primary point of contact on  
16 Federal networking and information technology ac-  
17 tivities for government organizations, academia, in-  
18 dustry, professional societies, State computing and  
19 networking technology programs, interested citizen  
20 groups, and others to exchange technical and pro-  
21 grammatic information;

22           “(3) solicit input and recommendations from a  
23 wide range of stakeholders during the development  
24 of each strategic plan required under section 101(e)  
25 and the scope of the Program Component Areas  
26 through the convening of at least one workshop with

1 invitees from academia, industry, Federal labora-  
2 tories, and other relevant organizations and institu-  
3 tions;

4 “(4) conduct and increase outreach, including  
5 to academia, industry, other relevant organizations  
6 and institutions, and the public, in order to increase  
7 awareness of the Program and the benefits of the  
8 Program and to increase potential opportunities for  
9 collaboration between agencies participating in the  
10 Program and the private sector; and

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

16 “(c) SOURCE OF FUNDING.—

17 “(1) IN GENERAL.—The operation of the Na-  
18 tional Coordination Office shall be supported by  
19 funds from each agency participating in the Pro-  
20 gram.

21 “(2) SPECIFICATIONS.—The portion of the total  
22 budget of such Office that is provided by each agen-  
23 cy for each fiscal year shall be in the same propor-  
24 tion as each such agency’s share of the total budget

1 for the Program for the previous fiscal year, as spec-  
2 ified in the report required under section 101(a)(3).

3 “(3) WAIVER.—As appropriate, the Director  
4 may consider and approve a reduction or waiver of  
5 an agency contribution requirement under paragraph  
6 (2).”.

7 **SEC. 7. NEXT GENERATION INTERNET.**

8 Section 103 of such Act (15 U.S.C. 5513) is repealed.

9 **SEC. 8. GRAND CHALLENGES IN AREAS OF NATIONAL IM-**  
10 **PORTANCE.**

11 Title I of such Act (15 U.S.C. 5511 et seq.) is amend-  
12 ed by adding at the end the following new section:

13 **“SEC. 103. GRAND CHALLENGES IN AREAS OF NATIONAL**  
14 **IMPORTANCE.**

15 “(a) IN GENERAL.—The Program shall encourage  
16 agencies identified in section 101(a)(3)(E) to support  
17 large-scale, long-term, interdisciplinary research and de-  
18 velopment activities in networking and information tech-  
19 nology directed toward agency mission areas that have the  
20 potential for significant contributions to national economic  
21 competitiveness and for other significant societal benefits.  
22 Such activities, ranging from basic research to the dem-  
23 onstration of technical solutions, shall be designed to ad-  
24 vance the development of fundamental discoveries. The ad-  
25 visory committee established under section 101(b) shall

1 make recommendations to the Program for candidate re-  
2 search and development areas for support under this sec-  
3 tion.

4 “(b) CHARACTERISTICS.—

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

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

10 “(B) involve collaborations among re-  
11 searchers in institutions of higher education  
12 and industry, and may involve nonprofit re-  
13 search institutions and Federal laboratories, as  
14 appropriate;

15 “(C) leverage Federal investments through  
16 collaboration with related State and private sec-  
17 tor initiatives; and

18 “(D) include a plan for fostering the trans-  
19 fer of research discoveries and the results of  
20 technology demonstration activities, including  
21 from institutions of higher education and Fed-  
22 eral laboratories, to industry for commercial de-  
23 velopment.

24 “(2) COST-SHARING.—In selecting applications  
25 for support, the agencies may give special consider-

1        ation to projects that include cost sharing from non-  
2        Federal sources.

3            “(3) AGENCY COLLABORATION.—If two or more  
4        agencies identified in section 101(a)(3)(E), or other  
5        appropriate agencies, are working on large-scale net-  
6        working and information technology research and  
7        development activities in the same area of national  
8        importance, then such agencies shall strive to col-  
9        laborate through joint solicitation and selection of  
10       applications for support and subsequent funding of  
11       projects.

12           “(4) INTERDISCIPLINARY RESEARCH CEN-  
13        TERS.—Research and development activities under  
14        this section may be supported through interdiscipli-  
15        nary research centers that are organized to inves-  
16        tigate basic research questions and carry out tech-  
17        nology demonstration activities in areas described in  
18        subsection (a). Research may be carried out through  
19        existing interdisciplinary centers.”.

20        **SEC. 9. WORKSHOPS AND SENIOR STEERING GROUPS.**

21        Title I of such Act (15 U.S.C. 5511 et seq.) is amend-  
22        ed further by adding after section 103, as added by section  
23        8 of this Act, the following new section:

1 **“SEC. 104. ADDRESSING EMERGING ISSUES.**

2 “(a) IN GENERAL.—In order to address emerging  
3 issues, the Director of the National Coordination Office  
4 may conduct workshops and other activities on research  
5 areas of emerging importance, which may include the  
6 grand challenge areas identified under section 103, with  
7 participants from institutions of higher education, Federal  
8 laboratories, and industry, in order to help guide Program  
9 investments and strategic planning in those areas, includ-  
10 ing areas identified in subsection (b).

11 “(b) FOCUS AREAS.—In selecting research areas  
12 under subsection (a), the Director of the National Coordi-  
13 nation Office shall consider the following topics:

14 “(1) Data analytics to identify the current and  
15 future state of performing inference, prediction, and  
16 other forms of analysis of data, and methods for the  
17 collection, management, preservation, and use of  
18 data.

19 “(2) The current and future state of the  
20 science, engineering, policy, and social under-  
21 standing of privacy protection.

22 “(3) The current and future state of funda-  
23 mental research on the systems and science of the  
24 interplay of people and computing as well as the co-  
25 ordination and support being undertaken in areas  
26 such as social computing, human-robot interaction,

1 privacy, and health-related aspects in human-com-  
2 puter systems.

3 “(c) FUNCTIONS.—The participants of the workshops  
4 shall, as appropriate—

5 “(1) develop options for models for research  
6 and development partnerships among institutions of  
7 higher education, Federal laboratories, and industry,  
8 including mechanisms for the support of research  
9 and development carried out under these partner-  
10 ships;

11 “(2) develop options for research and develop-  
12 ment for the specific issue areas that would be ad-  
13 dressed through such partnerships;

14 “(3) propose guidelines for assigning intellec-  
15 tual property rights and for the transfer of research  
16 results to the private sector; and

17 “(4) make recommendations for how Federal  
18 agencies participating in the Program can help sup-  
19 port research and development partnerships for the  
20 specific issue areas.

21 “(d) PARTICIPANTS.—The Director of the National  
22 Coordination Office shall ensure that the participants in  
23 the workshops—

24 “(1) are individuals with knowledge and exper-  
25 tise in the specific issue areas; and

1           “(2) represent a broad mix of relevant stake-  
2           holders, including academic and industry researchers  
3           and, as appropriate, Federal agencies.

4           “(e) SENIOR STEERING GROUPS AND STRATEGIC  
5 PLANS.—As appropriate, the Director of the National Co-  
6 ordination Office shall establish senior steering groups and  
7 develop focused strategic plans to coordinate and guide ac-  
8 tivities under the research areas identified under this sec-  
9 tion, taking into consideration the findings and rec-  
10 ommendations from any workshops carried out on those  
11 research topics.”.

12 **SEC. 10. NATIONAL SCIENCE FOUNDATION ACTIVITIES.**

13           Section 201 of such Act (15 U.S.C. 5521) is amend-  
14 ed—

15           (1) in subsection (a)—

16           (A) in paragraph (1)—

17           (i) by inserting “high-end” after “Na-  
18           tional Science Foundation shall provide”;

19           and

20           (ii) by striking “high-performance  
21           computing” and all that follows through  
22           “networking;” and inserting “networking  
23           and information technology; and”;

24           (B) by striking paragraphs (2) through  
25           (4); and

1 (C) by inserting after paragraph (1) the  
2 following new paragraph:

3 “(2) the National Science Foundation shall use  
4 its existing programs, in collaboration with other  
5 agencies, as appropriate, to improve the teaching  
6 and learning of networking and information tech-  
7 nology at all levels of education and to increase par-  
8 ticipation in networking and information technology  
9 fields, including by women and underrepresented  
10 students in networking and information technology  
11 fields.”; and

12 (2) by striking subsection (b).

13 **SEC. 11. NATIONAL AERONAUTICS AND SPACE ADMINIS-**  
14 **TRATION ACTIVITIES.**

15 Section 202 of such Act (15 U.S.C. 5522) is amend-  
16 ed—

17 (1) by striking subsection (b);

18 (2) by striking “(a) GENERAL RESPONSIBIL-  
19 ITIES.—”; and

20 (3) by striking “high-performance computing”  
21 and inserting “networking and information tech-  
22 nology”.

23 **SEC. 12. DEPARTMENT OF ENERGY ACTIVITIES.**

24 Section 203 of such Act (15 U.S.C. 5523) is amend-  
25 ed—

1 (1) by striking subsection (b);

2 (2) by striking “(a) GENERAL RESPONSIBIL-  
3 ITIES.—”;

4 (3) in paragraph (1), by striking “high-per-  
5 formance computing and networking” and inserting  
6 “networking and information technology”; and

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

9 **SEC. 13. DEPARTMENT OF COMMERCE ACTIVITIES.**

10 Section 204 of such Act (15 U.S.C. 5524) is amend-  
11 ed—

12 (1) in subsection (a)(1)—

13 (A) in subparagraph (A), by striking  
14 “high-performance computing systems and net-  
15 works” and inserting “networking and informa-  
16 tion technology systems and capabilities”;

17 (B) in subparagraph (B), by striking  
18 “interoperability of high-performance com-  
19 puting systems in networks and for common  
20 user interfaces to systems” and inserting  
21 “interoperability and usability of networking  
22 and information technology systems”; and

23 (C) in subparagraph (C), by striking  
24 “high-performance computing” and inserting  
25 “networking and information technology”;

1 (2) in subsection (b)—

2 (A) in the heading, by striking “HIGH-  
3 PERFORMANCE COMPUTING AND NETWORK”  
4 and inserting “NETWORKING AND INFORMA-  
5 TION TECHNOLOGY”;

6 (B) by striking “Pursuant to the Com-  
7 puter Security Act of 1987 (Public Law 100-  
8 235; 101 Stat. 1724), the” and inserting  
9 “The”; and

10 (C) by striking “sensitive”; and

11 (3) by striking subsections (c) and (d).

12 **SEC. 14. ENVIRONMENTAL PROTECTION AGENCY ACTIVI-**  
13 **TIES.**

14 Section 205 of such Act (15 U.S.C. 5525) is amend-  
15 ed—

16 (1) by striking subsection (b); and

17 (2) by striking “(a) GENERAL RESPONSIBIL-  
18 ITIES.—”.

19 **SEC. 15. ROLE OF THE DEPARTMENT OF EDUCATION.**

20 Section 206 of such Act (15 U.S.C. 5526) is amend-  
21 ed—

22 (1) by striking subsection (b);

23 (2) by striking “(a) GENERAL RESPONSIBIL-  
24 ITIES.—”; and

1           (3) by striking “to conduct basic” and all that  
2 follows through “software capabilities” and inserting  
3 “to support programs and activities to improve the  
4 teaching and learning of networking and information  
5 technology fields and contribute to the development  
6 of a skilled networking and information technology  
7 workforce”.

8 **SEC. 16. MISCELLANEOUS PROVISIONS.**

9           Section 207(b) of such Act (15 U.S.C. 5527(b)) is  
10 amended by striking “high-performance computing” and  
11 inserting “networking and information technology”.

12 **SEC. 17. REPEAL.**

13           Section 208 of such Act (15 U.S.C. 5528) is repealed.

14 **SEC. 18. ADDITIONAL REPEAL.**

15           Section 4 of the Department of Energy High-End  
16 Computing Revitalization Act of 2004 (15 U.S.C. 5543)  
17 is repealed.