

106TH CONGRESS
2^D SESSION

H. R. 4940

AN ACT

To designate the museum operated by the Secretary of Energy in Oak Ridge, Tennessee, as the “American Museum of Science and Energy”, 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,*

1 **TITLE I—AMERICAN MUSEUM OF**
2 **SCIENCE AND ENERGY**

3 **SEC. 101. DESIGNATION OF AMERICAN MUSEUM OF**
4 **SCIENCE AND ENERGY.**

5 (a) IN GENERAL.—The Museum—

6 (1) is designated as the “American Museum of
7 Science and Energy”; and

8 (2) shall be the official museum of science and
9 energy of the United States.

10 (b) REFERENCES.—Any reference in a law, map, reg-
11 ulation, document, paper, or other record of the United
12 States to the Museum is deemed to be a reference to the
13 “American Museum of Science and Energy”.

14 (c) PROPERTY OF THE UNITED STATES.—

15 (1) IN GENERAL.—The name “American Mu-
16 seum of Science and Energy” is declared the prop-
17 erty of the United States.

18 (2) INJUNCTION.—Whoever, except as author-
19 ized by the Secretary, uses or reproduces the name
20 “American Museum of Science and Energy”, or a
21 facsimile or simulation of such name in such manner
22 as suggests “American Museum of Science and En-
23 ergy”, may be enjoined from such use or reproduc-
24 tion at the suit of the Attorney General upon com-
25 plaint by the Secretary.

1 (3) EFFECT ON OTHER RIGHTS.—This sub-
2 section shall not be construed to conflict or interfere
3 with established or vested rights.

4 **SEC. 102. AUTHORITY.**

5 To carry out the activities of the Museum, the Sec-
6 retary may—

7 (1) accept and dispose of any gift, devise, or be-
8 quest of services or property, real or personal, that
9 is—

10 (A) designated in a written document by
11 the person making the gift, devise, or bequest
12 as intended for the Museum; and

13 (B) determined by the Secretary to be suit-
14 able and beneficial for use by the Museum;

15 (2) operate a retail outlet on the premises of
16 the Museum for the purpose of selling or distrib-
17 uting items (including mementos, food, educational
18 materials, replicas, and literature) that are—

19 (A) relevant to the contents of the Mu-
20 seum; and

21 (B) informative, educational, and tasteful;

22 (3) collect reasonable fees where feasible and
23 appropriate;

1 (4) exhibit, perform, display, and publish mate-
2 rials and information of or relating to the Museum
3 in any media or place;

4 (5) consistent with guidelines approved by the
5 Secretary, lease space on the premises of the Mu-
6 seum at reasonable rates and for uses consistent
7 with such guidelines; and

8 (6) use the proceeds of activities authorized
9 under this section to pay the costs of the Museum.

10 **SEC. 103. MUSEUM VOLUNTEERS.**

11 (a) **AUTHORITY TO USE VOLUNTEERS.**—The Sec-
12 retary may recruit, train, and accept the services of indi-
13 viduals or entities as volunteers for services or activities
14 related to the Museum.

15 (b) **STATUS OF VOLUNTEERS.**—

16 (1) **IN GENERAL.**—Except as provided in para-
17 graph (2), service by a volunteer under subsection
18 (a) shall not be considered Federal employment.

19 (2) **EXCEPTIONS.**—

20 (A) **FEDERAL TORT CLAIMS ACT.**—For
21 purposes of chapter 171 of title 28, United
22 States Code, a volunteer under subsection (a)
23 shall be treated as an employee of the govern-
24 ment (as defined in section 2671 of that title).

1 (B) COMPENSATION FOR WORK INJU-
2 RIES.—For purposes of subchapter I of chapter
3 81 of title 5, United States Code, a volunteer
4 described in subsection (a) shall be treated as
5 an employee (as defined in section 8101 of title
6 5, United States Code).

7 (c) COMPENSATION.—A volunteer under subsection
8 (a) shall serve without pay, but may receive nominal
9 awards and reimbursement for incidental expenses, includ-
10 ing expenses for a uniform or transportation in further-
11 ance of Museum activities.

12 **SEC. 104. DEFINITIONS.**

13 For purposes of this title:

14 (1) MUSEUM.—The term “Museum” means the
15 museum operated by the Secretary of Energy and lo-
16 cated at 300 South Tulane Avenue in Oak Ridge,
17 Tennessee.

18 (2) SECRETARY.—The term “Secretary” means
19 the Secretary of Energy or a designated representa-
20 tive of the Secretary.

21 **TITLE II—NETWORKING AND**
22 **INFORMATION TECHNOLOGY**

23 **SEC. 201. SHORT TITLE.**

24 This title may be cited as the “Networking and Infor-
25 mation Technology Research and Development Act”.

1 **SEC. 202. FINDINGS.**

2 The Congress makes the following findings:

3 (1) Information technology will continue to
4 change the way Americans live, learn, and work. The
5 information revolution will improve the workplace
6 and the quality and accessibility of health care and
7 education and make Government more responsible
8 and accessible. It is important that access to infor-
9 mation technology be available to all citizens, includ-
10 ing elderly Americans and Americans with disabili-
11 ties.

12 (2) Information technology is an imperative en-
13 abling technology that contributes to scientific dis-
14 ciplines. Major advances in biomedical research, pub-
15 lic safety, engineering, and other critical areas de-
16 pend on further advances in computing and commu-
17 nications.

18 (3) The United States is the undisputed global
19 leader in information technology.

20 (4) Information technology is recognized as a
21 catalyst for economic growth and prosperity.

22 (5) Information technology represents one of
23 the fastest growing sectors of the United States
24 economy, with electronic commerce alone projected
25 to become a trillion-dollar business by 2005.

1 (6) Businesses producing computers, semi-
2 conductors, software, and communications equip-
3 ment account for one-third of the total growth in the
4 United States economy since 1992.

5 (7) According to the United States Census Bu-
6 reau, between 1993 and 1997, the information tech-
7 nology sector grew an average of 12.3 percent per
8 year.

9 (8) Fundamental research in information tech-
10 nology has enabled the information revolution.

11 (9) Fundamental research in information tech-
12 nology has contributed to the creation of new indus-
13 tries and new, high-paying jobs.

14 (10) Our Nation's well-being will depend on the
15 understanding, arising from fundamental research,
16 of the social and economic benefits and problems
17 arising from the increasing pace of information tech-
18 nology transformations.

19 (11) Scientific and engineering research and the
20 availability of a skilled workforce are critical to con-
21 tinued economic growth driven by information tech-
22 nology.

23 (12) In 1997, private industry provided most of
24 the funding for research and development in the in-
25 formation technology sector. The information tech-

1 nology sector now receives, in absolute terms, one-
2 third of all corporate spending on research and de-
3 velopment in the United States economy.

4 (13) The private sector tends to focus its
5 spending on short-term, applied research.

6 (14) The Federal Government is uniquely posi-
7 tioned to support long-term fundamental research.

8 (15) Federal applied research in information
9 technology has grown at almost twice the rate of
10 Federal basic research since 1986.

11 (16) Federal science and engineering programs
12 must increase their emphasis on long-term, high-risk
13 research.

14 (17) Current Federal programs and support for
15 fundamental research in information technology is
16 inadequate if we are to maintain the Nation's global
17 leadership in information technology.

18 **SEC. 203. AUTHORIZATION OF APPROPRIATIONS.**

19 (a) NATIONAL SCIENCE FOUNDATION.—Section
20 201(b) of the High-Performance Computing Act of 1991
21 (15 U.S.C. 5521(b)) is amended—

22 (1) by striking “From sums otherwise author-
23 ized to be appropriated, there” and inserting
24 “There”;

1 (2) by striking “1995; and” and inserting
2 “1995;”; and

3 (3) by striking the period at the end and insert-
4 ing “; \$580,000,000 for fiscal year 2000;
5 \$699,300,000 for fiscal year 2001; \$728,150,000 for
6 fiscal year 2002; \$801,550,000 for fiscal year 2003;
7 and \$838,500,000 for fiscal year 2004. Amounts au-
8 thorized under this subsection shall be the total
9 amounts authorized to the National Science Founda-
10 tion for a fiscal year for the Program, and shall not
11 be in addition to amounts previously authorized by
12 law for the purposes of the Program.”.

13 (b) NATIONAL AERONAUTICS AND SPACE ADMINIS-
14 TRATION.—Section 202(b) of the High-Performance Com-
15 puting Act of 1991 (15 U.S.C. 5522(b)) is amended—

16 (1) by striking “From sums otherwise author-
17 ized to be appropriated, there” and inserting
18 “There”;

19 (2) by striking “1995; and” and inserting
20 “1995;”; and

21 (3) by striking the period at the end and insert-
22 ing “; \$164,400,000 for fiscal year 2000;
23 \$201,000,000 for fiscal year 2001; \$208,000,000 for
24 fiscal year 2002; \$224,000,000 for fiscal year 2003;
25 and \$231,000,000 for fiscal year 2004.”.

1 (c) DEPARTMENT OF ENERGY.—Section 203(e)(1) of
2 the High-Performance Computing Act of 1991 (15 U.S.C.
3 5523(e)(1)) is amended—

4 (1) by striking “1995; and” and inserting
5 “1995;”; and

6 (2) by striking the period at the end and insert-
7 ing “; \$119,500,000 for fiscal year 2000;
8 \$175,000,000 for fiscal year 2001; \$183,000,000 for
9 fiscal year 2002; \$193,000,000 for fiscal year 2003;
10 and \$203,000,000 for fiscal year 2004.”.

11 (d) NATIONAL INSTITUTE OF STANDARDS AND
12 TECHNOLOGY.—(1) Section 204(d)(1) of the High-Per-
13 formance Computing Act of 1991 (15 U.S.C. 5524(d)(1))
14 is amended—

15 (A) by striking “1995; and” and inserting
16 “1995;”; and

17 (B) by striking “1996; and” and inserting
18 “1996; \$9,000,000 for fiscal year 2000; \$9,500,000
19 for fiscal year 2001; \$10,500,000 for fiscal year
20 2002; \$16,000,000 for fiscal year 2003; and
21 \$17,000,000 for fiscal year 2004; and”.

22 (2) Section 204(d) of the High-Performance Com-
23 puting Act of 1991 (15 U.S.C. 5524(d)) is amended by
24 striking “From sums otherwise authorized to be appro-
25 priated, there” and inserting “There”.

1 (e) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN-
2 ISTRATION.—Section 204(d)(2) of the High-Performance
3 Computing Act of 1991 (15 U.S.C. 5524(d)(2)) is
4 amended—

5 (1) by striking “1995; and” and inserting
6 “1995;”; and

7 (2) by striking the period at the end and insert-
8 ing “; \$13,500,000 for fiscal year 2000;
9 \$13,900,000 for fiscal year 2001; \$14,300,000 for
10 fiscal year 2002; \$14,800,000 for fiscal year 2003;
11 and \$15,200,000 for fiscal year 2004.”.

12 (f) ENVIRONMENTAL PROTECTION AGENCY.—Sec-
13 tion 205(b) of the High-Performance Computing Act of
14 1991 (15 U.S.C. 5525(b)) is amended—

15 (1) by striking “From sums otherwise author-
16 ized to be appropriated, there” and inserting
17 “There”;

18 (2) by striking “1995; and” and inserting
19 “1995;”; and

20 (3) by striking the period at the end and insert-
21 ing “; \$4,200,000 for fiscal year 2000; \$4,300,000
22 for fiscal year 2001; \$4,500,000 for fiscal year
23 2002; \$4,600,000 for fiscal year 2003; and
24 \$4,700,000 for fiscal year 2004.”.

1 (g) NATIONAL INSTITUTES OF HEALTH.—Title II of
2 the High-Performance Computing Act of 1991 (15 U.S.C.
3 5521 et seq.) is amended by inserting after section 205
4 the following new section:

5 **“SEC. 205A. NATIONAL INSTITUTES OF HEALTH ACTIVITIES.**

6 “(a) GENERAL RESPONSIBILITIES.—As part of the
7 Program described in title I, the National Institutes of
8 Health shall conduct research directed toward the ad-
9 vancement and dissemination of computational techniques
10 and software tools in support of its mission of biomedical
11 and behavioral research.

12 “(b) AUTHORIZATION OF APPROPRIATIONS.—There
13 are authorized to be appropriated to the Secretary of
14 Health and Human Services for the purposes of the Pro-
15 gram \$223,000,000 for fiscal year 2000, \$233,000,000
16 for fiscal year 2001, \$242,000,000 for fiscal year 2002,
17 \$250,000,000 for fiscal year 2003, and \$250,000,000 for
18 fiscal year 2004.”.

19 **SEC. 204. NETWORKING AND INFORMATION TECHNOLOGY**
20 **RESEARCH AND DEVELOPMENT.**

21 (a) NATIONAL SCIENCE FOUNDATION.—Section 201
22 of the High-Performance Computing Act of 1991 (15
23 U.S.C. 5521) is amended by adding at the end the fol-
24 lowing new subsections:

1 “(c) NETWORKING AND INFORMATION TECHNOLOGY
2 RESEARCH AND DEVELOPMENT.—(1) Of the amounts au-
3 thorized under subsection (b), \$350,000,000 for fiscal
4 year 2000, \$421,000,000 for fiscal year 2001,
5 \$442,000,000 for fiscal year 2002, \$486,000,000 for fis-
6 cal year 2003, and \$515,000,000 for fiscal year 2004 shall
7 be available for grants for long-term basic research on net-
8 working and information technology, with priority given
9 to research that helps address issues related to high end
10 computing and software; network stability, fragility, reli-
11 ability, security (including privacy and counterinitiatives),
12 and scalability; and the social and economic consequences
13 (including the consequences for healthcare) of information
14 technology.

15 “(2) In each of the fiscal years 2000 and 2001, the
16 National Science Foundation shall award under this sub-
17 section up to 25 large grants of up to \$1,000,000 each,
18 and in each of the fiscal years 2002, 2003, and 2004, the
19 National Science Foundation shall award under this sub-
20 section up to 35 large grants of up to \$1,000,000 each.

21 “(3)(A) Of the amounts described in paragraph (1),
22 \$40,000,000 for fiscal year 2000, \$45,000,000 for fiscal
23 year 2001, \$50,000,000 for fiscal year 2002, \$55,000,000
24 for fiscal year 2003, and \$60,000,000 for fiscal year 2004

1 shall be available for grants of up to \$5,000,000 each for
2 Information Technology Research Centers.

3 “(B) For purposes of this paragraph, the term ‘Infor-
4 mation Technology Research Centers’ means groups of six
5 or more researchers collaborating across scientific and en-
6 gineering disciplines on large-scale long-term research
7 projects which will significantly advance the science sup-
8 porting the development of information technology or the
9 use of information technology in addressing scientific
10 issues of national importance.

11 “(d) MAJOR RESEARCH EQUIPMENT.—(1) In addi-
12 tion to the amounts authorized under subsection (b), there
13 are authorized to be appropriated to the National Science
14 Foundation \$70,000,000 for fiscal year 2000,
15 \$70,000,000 for fiscal year 2001, \$80,000,000 for fiscal
16 year 2002, \$80,000,000 for fiscal year 2003, and
17 \$85,000,000 for fiscal year 2004 for grants for the devel-
18 opment of major research equipment to establish terascale
19 computing capabilities at one or more sites and to promote
20 diverse computing architectures. Awards made under this
21 subsection shall provide for support for the operating ex-
22 penses of facilities established to provide the terascale
23 computing capabilities, with funding for such operating
24 expenses derived from amounts available under subsection
25 (b).

1 “(2) Grants awarded under this subsection shall be
2 awarded through an open, nationwide, peer-reviewed com-
3 petition. Awardees may include consortia consisting of
4 members from some or all of the following types of institu-
5 tions:

6 “(A) Academic supercomputer centers.

7 “(B) State-supported supercomputer centers.

8 “(C) Supercomputer centers that are supported
9 as part of federally funded research and development
10 centers.

11 Notwithstanding any other provision of law, regulation, or
12 agency policy, a federally funded research and develop-
13 ment center may apply for a grant under this subsection,
14 and may compete on an equal basis with any other appli-
15 cant for the awarding of such a grant.

16 “(3) As a condition of receiving a grant under this
17 subsection, an awardee must agree—

18 “(A) to connect to the National Science Foun-
19 dation’s Partnership for Advanced Computational
20 Infrastructure network;

21 “(B) to the maximum extent practicable, to co-
22 ordinate with other federally funded large-scale com-
23 puting and simulation efforts; and

24 “(C) to provide open access to all grant recipi-
25 ents under this subsection or subsection (c).

1 “(e) INFORMATION TECHNOLOGY EDUCATION AND
2 TRAINING GRANTS.—

3 “(1) INFORMATION TECHNOLOGY GRANTS.—

4 The National Science Foundation shall provide
5 grants under the Scientific and Advanced Tech-
6 nology Act of 1992 for the purposes of section 3(a)
7 and (b) of that Act, except that the activities sup-
8 ported pursuant to this paragraph shall be limited to
9 improving education in fields related to information
10 technology. The Foundation shall encourage institu-
11 tions with a substantial percentage of student enroll-
12 ments from groups underrepresented in information
13 technology industries to participate in the competi-
14 tion for grants provided under this paragraph.

15 “(2) INTERNSHIP GRANTS.—The National
16 Science Foundation shall provide—

17 “(A) grants to institutions of higher edu-
18 cation to establish scientific internship pro-
19 grams in information technology research at
20 private sector companies; and

21 “(B) supplementary awards to institutions
22 funded under the Louis Stokes Alliances for Mi-
23 nority Participation program for internships in
24 information technology research at private sec-
25 tor companies.

1 “(3) MATCHING FUNDS.—Awards under para-
2 graph (2) shall be made on the condition that at
3 least an equal amount of funding for the internship
4 shall be provided by the private sector company at
5 which the internship will take place.

6 “(4) DEFINITION.—For purposes of this sub-
7 section, the term ‘institution of higher education’
8 has the meaning given that term in section 1201(a)
9 of the Higher Education Act of 1965 (20 U.S.C.
10 1141(a)).

11 “(5) AVAILABILITY OF FUNDS.—Of the
12 amounts described in subsection (c)(1), \$10,000,000
13 for fiscal year 2000, \$15,000,000 for fiscal year
14 2001, \$20,000,000 for fiscal year 2002,
15 \$25,000,000 for fiscal year 2003, and \$25,000,000
16 for fiscal year 2004 shall be available for carrying
17 out this subsection.

18 “(f) EDUCATIONAL TECHNOLOGY RESEARCH.—

19 “(1) RESEARCH PROGRAM.—As part of its re-
20 sponsibilities under subsection (a)(1), the National
21 Science Foundation shall establish a research pro-
22 gram to develop, demonstrate, assess, and dissemi-
23 nate effective applications of information and com-
24 puter technologies for elementary and secondary
25 education. Such program shall—

1 “(A) support research projects, including
2 collaborative projects involving academic re-
3 searchers and elementary and secondary
4 schools, to develop innovative educational mate-
5 rials, including software, and pedagogical ap-
6 proaches based on applications of information
7 and computer technology;

8 “(B) support empirical studies to deter-
9 mine the educational effectiveness and the cost
10 effectiveness of specific, promising educational
11 approaches, techniques, and materials that are
12 based on applications of information and com-
13 puter technologies; and

14 “(C) include provision for the widespread
15 dissemination of the results of the studies car-
16 ried out under subparagraphs (A) and (B), in-
17 cluding maintenance of electronic libraries of
18 the best educational materials identified acces-
19 sible through the Internet.

20 “(2) REPLICATION.—The research projects and
21 empirical studies carried out under paragraph (1)(A)
22 and (B) shall encompass a wide variety of edu-
23 cational settings in order to identify approaches,
24 techniques, and materials that have a high potential

1 for being successfully replicated throughout the
2 United States.

3 “(3) AVAILABILITY OF FUNDS.—Of the
4 amounts authorized under subsection (b),
5 \$10,000,000 for fiscal year 2000, \$10,500,000 for
6 fiscal year 2001, \$11,000,000 for fiscal year 2002,
7 \$12,000,000 for fiscal year 2003, and \$12,500,000
8 for fiscal year 2004 shall be available for the pur-
9 poses of this subsection.

10 “(g) PEER REVIEW.—All grants made under this sec-
11 tion shall be made only after being subject to peer review
12 by panels or groups having private sector representation.”.

13 (b) OTHER PROGRAM AGENCIES.—

14 (1) NATIONAL AERONAUTICS AND SPACE AD-
15 MINISTRATION.—Section 202(a) of the High-Per-
16 formance Computing Act of 1991 (15 U.S.C.
17 5522(a)) is amended by inserting “, and may par-
18 ticipate in or support research described in section
19 201(c)(1)” after “and experimentation”.

20 (2) DEPARTMENT OF ENERGY.—Section 203(a)
21 of the High-Performance Computing Act of 1991
22 (15 U.S.C. 5523(a)) is amended by striking the pe-
23 riod at the end and inserting a comma, and by add-
24 ing after paragraph (4) the following:

1 “conduct an integrated program of research, development,
2 and provision of facilities to develop and deploy to sci-
3 entific and technical users the high performance com-
4 puting and collaboration tools needed to fulfill the statu-
5 tory mission of the Department of Energy, and may par-
6 ticipate in or support research described in section
7 201(c)(1).”.

8 (3) NATIONAL INSTITUTE OF STANDARDS AND
9 TECHNOLOGY.—Section 204(a)(1) of the High-Per-
10 formance Computing Act of 1991 (15 U.S.C.
11 5524(a)(1)) is amended by striking “; and” at the
12 end of subparagraph (C) and inserting a comma,
13 and by adding after subparagraph (C) the following:
14 “and may participate in or support research de-
15 scribed in section 201(c)(1); and”.

16 (4) NATIONAL OCEANIC AND ATMOSPHERIC AD-
17 MINISTRATION.—Section 204(a)(2) of the High-Per-
18 formance Computing Act of 1991 (15 U.S.C.
19 5524(a)(2)) is amended by inserting “, and may
20 participate in or support research described in sec-
21 tion 201(c)(1)” after “agency missions”.

22 (5) ENVIRONMENTAL PROTECTION AGENCY.—
23 Section 205(a) of the High-Performance Computing
24 Act of 1991 (15 U.S.C. 5525(a)) is amended by in-
25 serting “, and may participate in or support re-

1 search described in section 201(c)(1)” after “dynam-
2 ics models”.

3 (6) UNITED STATES GEOLOGICAL SURVEY.—
4 Title II of the High-Performance Computing Act of
5 1991 (15 U.S.C. 5521 et seq.) is amended—

6 (A) by redesignating sections 207 and 208
7 as sections 208 and 209, respectively; and

8 (B) by inserting after section 206 the fol-
9 lowing new section:

10 **“SEC. 207. UNITED STATES GEOLOGICAL SURVEY.**

11 “The United States Geological Survey may partici-
12 pate in or support research described in section
13 201(c)(1).”.

14 **SEC. 205. NEXT GENERATION INTERNET.**

15 (a) IN GENERAL.—Section 103(d) of the High-Per-
16 formance Computing Act of 1991 (15 U.S.C. 5513(d)) is
17 amended—

18 (1) in paragraph (1)—

19 (A) by striking “1999 and” and inserting
20 “1999,”; and

21 (B) by inserting “, \$15,000,000 for fiscal
22 year 2001, and \$15,000,000 for fiscal year
23 2002” after “fiscal year 2000”;

1 (2) in paragraph (2), by inserting “, and
2 \$25,000,000 for fiscal year 2001 and \$25,000,000
3 for fiscal year 2002” after “Act of 1998”;

4 (3) in paragraph (4)—

5 (A) by striking “1999 and” and inserting
6 “1999,”; and

7 (B) by inserting “, \$10,000,000 for fiscal
8 year 2001, and \$10,000,000 for fiscal year
9 2002” after “fiscal year 2000”; and

10 (4) in paragraph (5)—

11 (A) by striking “1999 and” and inserting
12 “1999,”; and

13 (B) by inserting “, \$5,500,000 for fiscal
14 year 2001, and \$5,500,000 for fiscal year
15 2002” after “fiscal year 2000”.

16 (b) RURAL INFRASTRUCTURE.—Section 103 of the
17 High-Performance Computing Act of 1991 (15 U.S.C.
18 5513) is amended by adding at the end thereof the fol-
19 lowing:

20 “(e) RURAL INFRASTRUCTURE.—Out of appropriated
21 amounts authorized by subsection (d), not less than 10
22 percent of the total amounts shall be made available to
23 fund research grants for making high-speed connectivity
24 more accessible to users in geographically remote areas.
25 The research shall include investigations of wireless, hy-

1 brid, and satellite technologies. In awarding grants under
2 this subsection, the administering agency shall give pri-
3 ority to qualified, post-secondary educational institutions
4 that participate in the Experimental Program to Stimu-
5 late Competitive Research.”.

6 (c) MINORITY AND SMALL COLLEGE INTERNET AC-
7 CESS.—Section 103 of the High-Performance Computing
8 Act of 1991 (15 U.S.C. 5513), as amended by subsection
9 (b), is further amended by adding at the end thereof the
10 following:

11 “(f) MINORITY AND SMALL COLLEGE INTERNET AC-
12 CESS.—Not less than 5 percent of the amounts made
13 available for research under subsection (d) shall be used
14 for grants to institutions of higher education that are His-
15 panic-serving, Native American, Native Hawaiian, Native
16 Alaskan, Historically Black, or small colleges and univer-
17 sities.”.

18 (d) DIGITAL DIVIDE STUDY.—

19 (1) IN GENERAL.—The National Academy of
20 Sciences shall conduct a study to determine the ex-
21 tent to which the Internet backbone and network in-
22 frastructure contribute to the uneven ability to ac-
23 cess to Internet-related technologies and services by
24 rural and low-income Americans. The study shall
25 include—

1 (A) an assessment of the existing geo-
2 graphical penalty (as defined in section 7(a)(1)
3 of the Next Generation Internet Research Act
4 of 1998 (15 U.S.C. 5501 nt.)) and its impact
5 on all users and their ability to obtain secure
6 and reliable Internet access;

7 (B) a review of all current federally funded
8 research to decrease the inequity of Internet ac-
9 cess to rural and low-income users; and

10 (C) an estimate of the potential impact of
11 Next Generation Internet research institutions
12 acting as aggregators and mentors for nearby
13 smaller or disadvantaged institutions.

14 (2) REPORT.—The National Academy of
15 Sciences shall transmit a report containing the re-
16 sults of the study and recommendations required by
17 paragraph (1) to the House of Representatives Com-
18 mittee on Science and the Senate Committee on
19 Commerce, Science, and Transportation within 1
20 year after the date of enactment of this Act.

21 (3) AUTHORIZATION OF APPROPRIATIONS.—
22 There are authorized to be appropriated to the Na-
23 tional Academy of Sciences such sums as may be
24 necessary to carry out this subsection.

1 **SEC. 206. REPORTING REQUIREMENTS.**

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

4 (1) in subsection (b)—

5 (A) by redesignating paragraphs (1)
6 through (5) as subparagraphs (A) through (E),
7 respectively;

8 (B) by inserting “(1)” after “ADVISORY
9 COMMITTEE.—”; and

10 (C) by adding at the end the following new
11 paragraph:

12 “(2) In addition to the duties outlined in paragraph
13 (1), the advisory committee shall conduct periodic evalua-
14 tions of the funding, management, implementation, and
15 activities of the Program, the Next Generation Internet
16 program, and the Networking and Information Tech-
17 nology Research and Development program, and shall re-
18 port not less frequently than once every 2 fiscal years to
19 the Committee on Science of the House of Representatives
20 and the Committee on Commerce, Science, and Transpor-
21 tation of the Senate on its findings and recommendations.
22 The first report shall be due within 1 year after the date
23 of the enactment of the Networking and Information
24 Technology Research and Development Act.”; and

25 (2) in subsection (c)(1)(A) and (2), by inserting
26 “, including the Next Generation Internet program

1 and the Networking and Information Technology
2 Research and Development program” after “Pro-
3 gram” each place it appears.

4 **SEC. 207. REPORT TO CONGRESS.**

5 Section 103 of the High-Performance Computing Act
6 of 1991 (15 U.S.C. 5513), as amended by section 205 of
7 this title, is further amended by redesignating subsections
8 (b), (c), and (d) as subsections (c), (d), and (e), respec-
9 tively, and by inserting after subsection (a) the following
10 new subsection:

11 “(b) REPORT TO CONGRESS.—

12 “(1) REQUIREMENT.—The Director of the Na-
13 tional Science Foundation shall conduct a study of
14 the issues described in paragraph (3), and not later
15 than 1 year after the date of the enactment of the
16 Networking and Information Technology Research
17 and Development Act, shall transmit to the Congress
18 a report including recommendations to address those
19 issues. Such report shall be updated annually for 6
20 additional years.

21 “(2) CONSULTATION.—In preparing the reports
22 under paragraph (1), the Director of the National
23 Science Foundation shall consult with the National
24 Aeronautics and Space Administration, the National
25 Institute of Standards and Technology, and such

1 other Federal agencies and educational entities as
2 the Director of the National Science Foundation
3 considers appropriate.

4 “(3) ISSUES.—The reports shall—

5 “(A) identify the current status of high-
6 speed, large bandwidth capacity access to all
7 public elementary and secondary schools and li-
8 braries in the United States;

9 “(B) identify how high-speed, large band-
10 width capacity access to the Internet to such
11 schools and libraries can be effectively utilized
12 within each school and library;

13 “(C) consider the effect that specific or re-
14 gional circumstances may have on the ability of
15 such institutions to acquire high-speed, large
16 bandwidth capacity access to achieve universal
17 connectivity as an effective tool in the education
18 process; and

19 “(D) include options and recommendations
20 for the various entities responsible for elemen-
21 tary and secondary education to address the
22 challenges and issues identified in the reports.”.

1 **SEC. 208. STUDY OF ACCESSIBILITY TO INFORMATION**
2 **TECHNOLOGY.**

3 Section 201 of the High-Performance Computing Act
4 of 1991 (15 U.S.C. 5524), as amended by sections 3(a)
5 and 4(a) of this Act, is amended further by inserting after
6 subsection (g) the following new subsection:

7 “(h) STUDY OF ACCESSIBILITY TO INFORMATION
8 TECHNOLOGY.—

9 “(1) STUDY.—Not later than 90 days after the
10 date of the enactment of the Networking and Infor-
11 mation Technology Research and Development Act,
12 the Director of the National Science Foundation, in
13 consultation with the National Institute on Dis-
14 ability and Rehabilitation Research, shall enter into
15 an arrangement with the National Research Council
16 of the National Academy of Sciences for that Coun-
17 cil to conduct a study of accessibility to information
18 technologies by individuals who are elderly, individ-
19 uals who are elderly with a disability, and individ-
20 uals with disabilities.

21 “(2) SUBJECTS.—The study shall address—

22 “(A) current barriers to access to informa-
23 tion technologies by individuals who are elderly,
24 individuals who are elderly with a disability,
25 and individuals with disabilities;

1 “(B) research and development needed to
2 remove those barriers;

3 “(C) Federal legislative, policy, or regu-
4 latory changes needed to remove those barriers;
5 and

6 “(D) other matters that the National Re-
7 search Council determines to be relevant to ac-
8 cess to information technologies by individuals
9 who are elderly, individuals who are elderly with
10 a disability, and individuals with disabilities.

11 “(3) TRANSMITTAL TO CONGRESS.—The Direc-
12 tor of the National Science Foundation shall trans-
13 mit to the Congress within 2 years of the date of the
14 enactment of the Networking and Information Tech-
15 nology Research and Development Act a report set-
16 ting forth the findings, conclusions, and rec-
17 ommendations of the National Research Council.

18 “(4) FEDERAL AGENCY COOPERATION.—Fed-
19 eral agencies shall cooperate fully with the National
20 Research Council in its activities in carrying out the
21 study under this subsection.

22 “(5) AVAILABILITY OF FUNDS.—Funding for
23 the study described in this subsection shall be avail-
24 able, in the amount of \$700,000, from amounts de-
25 scribed in subsection (c)(1).”.

1 **SEC. 209. COMPTROLLER GENERAL STUDY.**

2 Not later than 1 year after the date of the enactment
3 of this Act, the Comptroller General shall transmit to the
4 Congress a report on the results of a detailed study ana-
5 lyzing the effects of this title, and the amendments made
6 by this title, on lower income families, minorities, and
7 women.

Passed the House of Representatives October 24,
2000.

Attest:

Clerk.

106TH CONGRESS
2D SESSION

H. R. 4940

AN ACT

To designate the museum operated by the Secretary of Energy in Oak Ridge, Tennessee, as the “American Museum of Science and Energy”, and for other purposes.