# Public Law 102-245
# 102d Congress

## An Act

To authorize appropriations for the National Institute of Standards and Technology and the Technology Administration of the Department of Commerce, and for other purposes.

Feb. 14, 1992
[H.R. 1989]

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,*

American Technology Preeminence Act of 1991. 15 USC 3701 note.

**SECTION 1. SHORT TITLE.**

This Act may be cited as the "American Technology Preeminence Act of 1991".

15 USC 3701 note.

**SEC. 2. DEFINITIONS.**

As used in this Act—

(1) the term "high-resolution information systems" means equipment and techniques required to create, store, recover, and play back high-resolution images and accompanying sound;

(2) the term "advanced manufacturing technology" means numerically-controlled machine tools, robots, automated process control equipment, computerized flexible manufacturing systems, associated computer software, and other technology for improving manufacturing and industrial processes;

(3) the term "advanced materials" means a field of research including the study of composites, ceramics, metals, polymers, superconducting materials, materials produced through biotechnology, and materials production technologies, including coated systems, that provide the potential for significant advantages over existing materials;

(4) the term "Institute" means the National Institute of Standards and Technology;

(5) the term "Secretary" means the Secretary of Commerce; and

(6) the term "Under Secretary" means the Under Secretary of Commerce for Technology.

## TITLE I—DEPARTMENT OF COMMERCE RESEARCH AND TECHNOLOGY

Technology Administration Authorization Act of 1991. 15 USC 3701 note.

**SEC. 101. SHORT TITLE.**

This title may be cited as the "Technology Administration Authorization Act of 1991".

15 USC 3701 note.

**SEC. 102. STATEMENT OF POLICY.**

Congress finds that in order to help United States industries to speed the development of new products and processes so as to maintain the economic competitiveness of the Nation, it is necessary to strengthen the programs and activities of the Department of Commerce's Technology Administration and National Institute of Standards and Technology.

**SEC. 103. TECHNOLOGY ADMINISTRATION.**

(a) FISCAL YEAR 1992.—(1) There are authorized to be appropriated to the Secretary, to carry out the activities of the Under Secretary and the Assistant Secretary for Technology Policy, $10,000,000 for fiscal year 1992, which shall be available for the following line items:

(A) Office of the Under Secretary, $2,000,000.

(B) Technology Policy, $4,000,000.

(C) Japanese Technical Literature, $1,500,000.

(D) Clearinghouse on State and Local Initiatives on Productivity, Technology, and Innovation, $1,000,000.

(E) National Technical Information Service, $1,500,000 to carry out the modernization plan described in section 212(f)(3)(D) of the National Technical Information Act of 1988 (15 U.S.C. 3704b(f)(3)(D)).

(2) Funds may be transferred among the line items listed in paragraph (1), so long as the net funds transferred to or from any line item do not exceed 10 percent of the amount authorized for that line item in such paragraph and the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives are notified in advance of any such transfer.

(b) FISCAL YEAR 1993.—(1) There are authorized to be appropriated to the Secretary, to carry out the activities of the Under Secretary and the Assistant Secretary for Technology Policy, $10,000,000 for fiscal year 1993, which shall be available for the following line items:

(A) Office of the Under Secretary, $2,000,000.

(B) Technology Policy, $4,000,000.

(C) Japanese Technical Literature, $1,500,000.

(D) Clearinghouse on State and Local Initiatives on Productivity, Technology, and Innovation, $1,000,000.

(E) National Technical Information Service, $1,500,000 to carry out the modernization plan described in section 212(f)(3)(D) of the National Technical Information Act of 1988 (15 U.S.C. 3704b(f)(3)(D)).

(2) Funds may be transferred among the line items listed in paragraph (1), so long as the net funds transferred to or from any line item do not exceed 10 percent of the amount authorized for that line item in such paragraph and the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives are notified in advance of any such transfer.

15 USC 3704b-1.

(c) OPERATING COSTS.—Operating costs for the National Technical Information Service associated with the acquisition, processing, storage, bibliographic control, and archiving of information and documents shall be recovered primarily through the collection of fees.

(d) REPORT AND CERTIFICATION TO CONGRESS.—Within 90 days after the date of enactment of this Act, the Secretary shall submit to Congress a report which—

(1) describes the Department of Commerce's response to the Inspector General's Report No. ATD-024-0-001;

(2) includes a revised detailed modernization plan for the National Technical Information Service;

(3) contains a business plan for the National Technical Information Service which includes detailed profit and loss analysis for groups of products and services and for major market segments; and

(4) certifies that the National Technical Information Service has—

(A) employed a chief financial officer who is a certified public accountant or equivalently experienced accountant with experience in the dissemination of scientific and technical information; and

(B) begun taking reasonable steps toward strengthening its accounting system in response to the Inspector General's report described in paragraph (1).

(e) TECHNICAL AMENDMENT.—Section 5422(a) of the Omnibus Trade and Competitiveness Act of 1988 (15 U.S.C. 4603a(a)) and section 273(c)(4) of the National Defense Authorization Act for Fiscal Years 1988 and 1989 (15 U.S.C. 4603(c)(4)) are each amended by striking "Economic Affairs" and inserting in lieu thereof "Technology".

**SEC. 104. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.**

(a) FISCAL YEAR 1992.—(1) There are authorized to be appropriated to the Secretary, to carry out the intramural scientific and technical research and services activities of the Institute, $210,000,000 for fiscal year 1992, which shall be available for the following line items:

(A) Electronics and Electrical Measurements, $33,700,000.

(B) Manufacturing Engineering, $13,500,000.

(C) Chemical Science and Technology, $22,000,000.

(D) Physics, $27,000,000.

(E) Materials Science and Engineering, $30,000,000.

(F) Building and Fire Research, $12,300,000.

(G) Computer Systems, $16,000,000.

(H) Applied Mathematics and Scientific Computing, $6,500,000.

(I) Technology Assistance, $11,000,000.

(J) Research Support Activities, $38,000,000.

(2)(A) Of the total of the amounts authorized under paragraph (1), $2,000,000 are authorized only for steel technology.

(B) Of the amount authorized under paragraph (1)(I)—

(i) $500,000 are authorized only for the evaluation of non-energy-related inventions and related technology extension activities;

(ii) $250,000 are authorized only for Institute participation in the pilot program established under subsection (e); and

(iii) $2,700,000 are authorized only for the Institute's management of the extramural funding programs authorized under section 105.

(C) Of the total amount authorized under paragraph (1)(J), $7,565,000 are authorized only for the technical competence fund.

(b) FISCAL YEAR 1993.—(1) There are authorized to be appropriated to the Secretary, to carry out the intramural scientific and technical research and services activities of the Institute, $221,200,000 for fiscal year 1993, which shall be available for the following line items:

(A) Electronics and Electrical Measurements, $36,000,000.

(B) Manufacturing Engineering, $16,000,000.

(C) Chemical Science and Technology, $22,500,000.

(D) Physics, $28,700,000.

(E) Materials Science and Engineering, $39,400,000.
(F) Building and Fire Research, $12,000,000.
(G) Computer Systems, $20,600,000.
(H) Applied Mathematics and Scientific Computing, $6,300,000.
(I) Technology Assistance, $10,800,000.
(J) Research Support Activities, $25,000,000.
(K) Pay Raise, $3,900,000.

(2)(A) Of the total of the amounts authorized under paragraph (1), $2,000,000 are authorized only for steel technology.

(B) Of the amount authorized under paragraph (1)(I)—

(i) $500,000 are authorized only for the evaluation of non-energy-related inventions and related technology extension activities;

(ii) $250,000 are authorized only for Institute participation in the pilot program established under subsection (e); and

(iii) $5,000,000 are authorized only for the Institute's management of the extramural funding programs authorized under section 105.

(C) Of the total amount authorized under paragraph (1)(J), $7,223,000 are authorized only for the technical competence fund.

(3) In addition to the amounts authorized under paragraph (1), there are authorized to be appropriated to the Secretary for fiscal year 1993 $34,800,000 for the renovation and upgrading of the Institute's facilities.

(c) TRANSFERS.—(1) Funds may be transferred among the line items listed in subsection (a)(1) and among the line items listed in subsection (b)(1), so long as the net funds transferred to or from any line item do not exceed 10 percent of the amount authorized for that line item in such subsection and the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives are notified in advance of any such transfer.

(2) The Secretary may propose transfers to or from any line item listed in subsection (a)(1) or subsection (b)(1) exceeding 10 percent of the amount authorized for such line item, but such proposed transfer may not be made unless—

(A) a full and complete explanation of any such proposed transfer and the reason therefor are transmitted in writing to the Speaker of the House of Representatives, the President of the Senate, and the appropriate authorizing Committees of the House of Representatives and the Senate, and

(B) 30 calendar days have passed following the transmission of such written explanation.

(d) RELATION TO OTHER AUTHORIZATIONS.—Except for authorizations provided in the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100-418; 102 Stat. 1448), the Earthquake Hazards Reduction Act of 1977 (42 U.S.C. 7701 et seq.), and the Steel and Aluminum Energy Conservation and Technology Competitiveness Act of 1988 (15 U.S.C. 5101 et seq.), this Act contains the complete authorizations of appropriations for the Institute for fiscal years 1992 and 1993. This subsection shall not limit the authority of the Institute to accept funds appropriated to any other Federal agency or to perform work for others.

Foreign relations.

(e) PILOT PROGRAM.—Pursuant to the authorizations contained in subsections (a)(1)(I) and (b)(1)(I), the Secretary is authorized to pay the Federal share of the cost of establishing and carrying out a standards assistance pilot program under section 112 of the National Institute of Standards and Technology Authorization Act for Fiscal Year 1989 (15 U.S.C. 272 note). The purpose of the pilot program is to assist a country or countries that have requested assistance from the United States in the development of comprehensive industrial standards by providing the continuous presence of United States personnel on-site for a period of 2 or more years to provide such assistance and by providing, as necessary, additional technical support from within the Institute. Such funds shall be made available for such purpose only to the extent that matching funds are received by the National Institute of Standards and Technology from sources outside the Federal Government.



(f) CONSTRUCTION OF FACILITIES.—Section 14 of the National Institute of Standards and Technology Act (15 U.S.C. 278d) is amended by striking "herein:" and all that follows, and inserting in lieu thereof "herein.".

15 USC 278f note.

(g) FIRE AND BUILDING PROGRAMS.—The fire research and building technology programs of the Institute may be combined for administrative purposes only, and separate budget accounts for fire research and building technology shall be maintained. No later than December 31, 1992, the Secretary, acting through the Director of the Institute, shall report to Congress on the results of the combination, on efforts to preserve the integrity of the fire research and building technology programs, on the long-range basic and applied research plans of the two programs, on procedures for receiving advice on fire and earthquake research priorities from constituencies concerned with public safety, and on the relation between the combined program at the Institute and the United States Fire Administration.

Reports.

(h) EDUCATIONAL PROGRAMS.—(1) Section 18 of the National Institute of Standards and Technology Act (15 U.S.C. 278g-1) is amended by striking the period at the end of the first sentence and inserting in lieu thereof ", and to United States citizens for research and technical activities on Institute programs.".

(2) Section 17 of the National Institute of Standards and Technology Act (15 U.S.C. 278g) is amended by adding at the end the following new subsection:

"(d) For any scientific and engineering disciplines for which there is a shortage of suitably qualified and available United States citizens and nationals, the Secretary is authorized to recruit and employ in scientific and engineering fields at the Institute foreign nationals who have been lawfully admitted to the United States for permanent residence under the Immigration and Nationality Act and who intend to become United States citizens. Employment of a person under this paragraph shall not be subject to the provisions of title 5, United States Code, governing employment in the competitive service, or to any prohibition in any other Act against the employment of aliens, or against the payment of compensation to them.".

(i) CORE PROGRAM FUNDING.—It is the sense of the Congress that the intramural scientific and technical research and services activities of the National Institute of Standards and Technology should share fully in any funding increases provided to the Institute.

**SEC. 105. EXTRAMURAL PROGRAMS OF THE INSTITUTE.**

(a) FISCAL YEAR 1992.—In addition to any sums otherwise authorized under this Act, there are authorized to be appropriated to

the Secretary, to carry out the extramural industrial technology services programs of the Institute created under sections 25, 26, and 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278k, 278l, and 278n), $127,500,000 for fiscal year 1992, which shall be available for the following line items:

(1) Regional Centers for the Transfer of Manufacturing Technology, $25,000,000.

(2) State Technology Extension Program, $2,500,000.

(3) Advanced Technology Program, $100,000,000.

(b) FISCAL YEAR 1993.—In addition to any sums otherwise authorized under this Act, there are authorized to be appropriated to the Secretary, to carry out the extramural industrial technology services programs of the Institute created under sections 25, 26, and 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278k, 278l, and 278n), $127,500,000 for fiscal year 1993, which shall be available for the following line items:

(1) Regional Centers for the Transfer of Manufacturing Technology and Satellite Manufacturing Centers, $25,000,000.

(2) State Technology Extension Program, $2,500,000.

(3) Advanced Technology Program, $100,000,000.

(c) LIMITATION.—No funds are authorized under this section for any project under the extramural programs of the Institute which have not been competitively reviewed through the merit review processes required by the National Institute of Standards and Technology Act (15 U.S.C. 271 et seq.).

(d) AMENDMENTS TO EXTENSION PROGRAM.—Section 5121(b) of the Omnibus Trade and Competitiveness Act of 1988 (15 U.S.C. 278l note) is amended by striking paragraph (5).

(e) AMENDMENTS TO EXTENSION ACTIVITIES.—(1) Section 25(c)(6) of the National Institute of Standards and Technology Act (15 U.S.C. 278k(c)(6)) is amended by inserting before the period at the end the following: "except for contracts for such specific technology extension or transfer services as may be specified by statute or by the Director".

(2) Section 25(d) of the National Institute of Standards and Technology Act (15 U.S.C. 278k(d)) is amended to read as follows:

"(d) In addition to such sums as may be authorized and appropriated to the Secretary and Director to operate the Centers program, the Secretary and Director also may accept funds from other Federal departments and agencies for the purpose of providing Federal funds to support Centers. Any Center which is supported with funds which originally came from other Federal departments and agencies shall be selected and operated according to the provisions of this section.".

(f) ADVISORY COMMITTEE.—Section 5142(f) of the Omnibus Trade and Competitiveness Act of 1988 (15 U.S.C. 4632(f)) is amended by striking "and 1990" and inserting in lieu thereof "1990, 1991, 1992, and 1993".

**SEC. 106. SALARY ADJUSTMENTS.**

In addition to any sums otherwise authorized by this Act, there are authorized to be appropriated to the Secretary for fiscal years 1992 and 1993 such additional sums as may be necessary to make any adjustments in salary, pay, retirement and other employee benefits which may be provided for by law.



**SEC. 107. METRIC AMENDMENT.**

(a) The Fair Packaging and Labeling Act (15 U.S.C. 1451 et seq.) is amended—

(1) in sections 4(a) (2), (4), and (5), 4(b), and 5(c)(1), by striking "weight" and inserting in lieu thereof "weight or mass"; 15 USC 1453, 1454.

(2) in sections 4(a)(5) and 5(d), by striking "weights" and inserting in lieu thereof "weights or masses";

(3) in section 4(a)(2), by inserting ", using the most appropriate units of the SI metric system as the primary system for measuring quantity" after "panel of that label"; and

(4) in section 4(a)(3)(A)—

(A) by striking "containing" and inserting in lieu thereof "that also displays the avoirdupois system of measure, and that contains" in clause (i);

(B) by inserting "that also displays the avoirdupois system of measure" after "random package" in clause (ii);

(C) by inserting "that also displays the avoirdupois system of measure" after "linear measure" in clause (iii); and

(D) by inserting "that also displays the avoirdupois system of measure" after "measure of area" in clause (iv).

(b) This section shall take effect 2 years after the date of enactment of this Act. Effective date. 15 USC 1453 note.

**SEC. 108. TRANSFER OF FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION.** 15 USC 3704b-

(a) TRANSFER.—The head of each Federal executive department or agency shall transfer in a timely manner to the National Technical Information Service unclassified scientific, technical, and engineering information which results from federally funded research and development activities for dissemination to the private sector, academia, State and local governments, and Federal agencies. Only information which would otherwise be available for public dissemination shall be transferred under this subsection. Such information shall include technical reports and information, computer software, application assessments generated pursuant to section 11(c) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710(c)), and information regarding training technology and other federally owned or originated technologies. The Secretary shall issue regulations within one year after the date of enactment of this Act outlining procedures for the ongoing transfer of such information to the National Technical Information Service. Regulations.

(b) ANNUAL REPORT TO CONGRESS.—As part of the annual report required under section 212(f)(3) of the National Technical Information Act of 1988, the Secretary shall report to Congress on the status of efforts under this section to ensure access to Federal scientific and technical information by the public. Such report shall include—

(1) an evaluation of the comprehensiveness of transfers of information by each Federal executive department or agency under subsection (a);

(2) a description of the use of Federal scientific and technical information;

(3) plans for improving public access to Federal scientific and technical information; and

(4) recommendations for legislation necessary to improve public access to Federal scientific and technical information.

**SEC. 109. AVAILABILITY OF APPROPRIATIONS.**

Appropriations made under the authority provided in this Act shall remain available for obligation, for expenditure, or for obligation and expenditure for periods specified in the Acts making such appropriations.

**SEC. 110. REPORT ON FACILITIES NEEDS.**

By March 1, 1992, the Director of the Institute shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report on what renovations and upgrades of Institute facilities are necessary over the next decade. The report shall include a ranking of facilities needs in order of priority, an estimate of costs, and the Director's plan for meeting these needs.

Business and industry. Commerce and trade.

**SEC. 111. BUY-AMERICAN PROVISIONS.**

(a) RESTRICTIONS ON CONTRACT AWARDS.—No contract or subcontract made with funds authorized under this title may be awarded for the procurement of an article, material, or supply produced or manufactured in a foreign country whose government unfairly maintains in government procurement a significant and persistent pattern or practice of discrimination against United States products or services which results in identifiable harms to United States businesses, as identified by the President pursuant to subsection (g)(1)(A) of section 305 of the Trade Agreements Act of 1979 (19 U.S.C. 2515(g)(1)(A)). Any such determination shall be made in accordance with such section 305.

15 USC 1536.

(b) PROHIBITION AGAINST FRAUDULENT USE OF "MADE IN AMERICA" LABELS.—If it has been finally determined by a court or a Federal agency that any person intentionally affixed a label bearing a "Made in America" inscription, or an inscription with the same meaning, to any product sold in or shipped to the United States that is not made in the United States, that person shall be ineligible to receive any contract or subcontract from the Department of Commerce, pursuant to the debarment, suspension, and ineligibility procedures in subpart 9.4 of chapter 1 of title 48, Code of Federal Regulations.

Contracts.

(c) BUY-AMERICAN REQUIREMENT.—(1) The Secretary is authorized to award to a domestic firm a contract for the purchase of goods that, under the use of competitive procedures, would be awarded to a foreign firm, if—

(A) the final product of the domestic firm will be completely assembled in the United States;

(B) when completely assembled, more than 50 percent of the final product of the domestic firm will be domestically produced; and

(C) the difference between the bids submitted by the foreign and domestic firms is not more than 6 percent.

(2) This subsection shall not apply to the extent to which—

(A) in the opinion of the Secretary, after taking into consideration international obligations and trade relations, such applicability would not be in the public interest;

(B) in the opinion of the Secretary, after consultation with the Secretary of Defense, compelling national security considerations require otherwise; or



(C) the President determines that such an award would be in violation of the General Agreement on Tariffs and Trade or an international agreement to which the United States is a party.

(3) This subsection shall apply only to contracts made for which—

(A) amounts are authorized by this title to be made available; and

(B) solicitations for bids are issued after the date of enactment of this Act.

Reports.

(4) The Secretary, before January 1, 1993, shall report to the Congress on contracts covered under this subsection—

(A) entered into with foreign firms pursuant to a determination made under paragraph (2) of this subsection; and

(B) awarded to domestic firms pursuant to paragraph (1) of this subsection, in fiscal years 1991 and 1992.

(5) For purposes of this subsection—

(A) the term "domestic firm" means a business entity that is incorporated in the United States and that conducts business operations in the United States; and

(B) the term "foreign firm" means a business entity not described in subparagraph (A).

## TITLE II—ADVANCED TECHNOLOGY PROGRAM AMENDMENTS

Emerging Technologie and Advanc Technology Program Amendmen Act of 1991 Business ar industry. 15 USC 271 15 USC 278 note.

**SEC. 201. EMERGING TECHNOLOGIES RESEARCH AND DEVELOPMENT.**

(a) SHORT TITLE.—This title may be cited as the "Emerging Technologies and Advanced Technology Program Amendments Act of 1991".

(b) FINDINGS AND PURPOSES.—(1) The Congress finds that—

(A) technological innovation and its profitable inclusion in commercial products are critical components of the ability of the United States to raise the living standards of Americans and to compete in world markets;

(B) maintaining viable United States-based high technology industries is vital to both the national security and the economic well-being of the United States;

(C) the Department of Commerce has reported that the United States is losing or losing badly, relative to Japan and Europe, in many important emerging technologies and risks losing much of the $350,000,000,000 United States market and $1,000,000,000,000 world market expected to develop by the year 2000 for products based on emerging technologies;

(D) it is in the national interest for the Federal Government to encourage and, in selected cases, provide limited financial assistance to industry-led private sector efforts to increase research and development in economically critical areas of technology;

(E) joint ventures are a particularly effective and appropriate way to pool resources to conduct research that no single company is likely to undertake but which will create new generic technologies that will benefit an entire industry and the welfare of the Nation;

(F) it is vital that industry within the United States attain a leadership role and capability in development, design, and manufacturing in fields such as high-resolution information systems, advanced manufacturing, and advanced materials; and

(G) the Advanced Technology Program, established under section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n), is the appropriate vehicle for the United States Government to provide limited assistance to joint development within the United States of new high technology capabilities in fields such as high-resolution information systems, advanced manufacturing technology, and advanced materials, and can help encourage United States industry to work together on problems of mutual concern.

(2) The purposes of this section are—

(A) to strengthen the Advanced Technology Program created under section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n), and to provide improved guidelines for the allocation of Advanced Technology Program funds appropriated under the authorizations contained in section 105 of this Act;

(B) to promote and assist in the development of advanced technologies and the generic application of such technologies to civilian products, processes, and services;

(C) to improve the competitive position of United States industry by supporting industry-led research and development projects in areas of emerging technology which have substantial potential to advance the economic well-being and national security of the United States, such as high-resolution information systems, advanced manufacturing technology, and advanced materials; and

(D) to support projects that range from idea exploration to prototype development and address long-term, high-risk areas of technological research, development, and application that are not otherwise being adequately developed by the private sector, but are likely to yield important benefits to the Nation.

(c) ADVANCED TECHNOLOGY PROGRAM.—(1) Section 28(a) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(a)), is amended by adding at the end the following new sentence: "In operating the Program, the Secretary and Director shall, as appropriate, be guided by the findings and recommendations of the Biennial National Critical Technology Reports prepared pursuant to section 603 of the National Science and Technology Policy, Organization, and Priorities Act of 1976 (42 U.S.C. 6683).".

(2) Section 28(b)(1) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(b)(1)), is amended by inserting "industry-led" immediately after "aid".

(3) Section 28(b)(1)(B) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(b)(1)(B)), is amended by inserting "by means of grants, cooperative agreements, or contracts" immediately after "such joint ventures".

(4) Section 28(b)(2) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(b)(2)), is amended to read as follows:

Grants. Contracts.

"(2) provide grants to and enter into contracts and cooperative agreements with United States businesses (especially small businesses), provided that emphasis is placed on applying the Institute's research, research techniques, and expertise to those organizations' research programs;".

(5) Section 28(d)(2) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(d)(2)) is amended to read as follows:

"(2) In the case of joint ventures, the Program shall not make an award unless the award will facilitate the formation of a joint venture or the initiation of a new research and development project by an existing joint venture.".



(6) Section 28(d) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(d)(7)) is amended—

(A) by striking paragraph (7);

(B) by redesignating paragraphs (8) and (9) as paragraphs (7) and (8), respectively; and

(C) by adding at the end the following new paragraphs:

"(9) A company shall be eligible to receive financial assistance under this section only if—

"(A) the Secretary finds that the company's participation in the Program would be in the economic interest of the United States, as evidenced by investments in the United States in research, development, and manufacturing (including, for example, the manufacture of major components or subassemblies in the United States); significant contributions to employment in the United States; and agreement with respect to any technology arising from assistance provided under this section to promote the manufacture within the United States of products resulting from that technology (taking into account the goals of promoting the competitiveness of United States industry), and to procure parts and materials from competitive suppliers; and

"(B) either—

"(i) the company is a United States-owned company; or

"(ii) the Secretary finds that the company is incorporated in the United States and has a parent company which is incorporated in a country which affords to United States-owned companies opportunities, comparable to those afforded to any other company, to participate in any joint venture similar to those authorized under this Act; affords to United States-owned companies local investment opportunities comparable to those afforded to any other company; and affords adequate and effective protection for the intellectual property rights of United States-owned companies.

"(10) Grants, contracts, and cooperative assignments under this section shall be designed to support projects which are high risk and which have the potential for eventual substantial widespread commercial application. In order to receive a grant, contract, or cooperative agreement under this section, a research and development entity shall demonstrate to the Secretary the requisite ability in research and technology development and management in the project area in which the grant, contract, or cooperative agreement is being sought.

"(11)(A) Title to any intellectual property arising from assistance provided under this section shall vest in a company or companies incorporated in the United States. The United States may reserve a nonexclusive, nontransferable, irrevocable paid-up license, to have practiced for or on behalf of the United States, in connection with any such intellectual property, but shall not, in the exercise of such license, publicly disclose proprietary information related to the license. Title to any such intellectual property shall not be transferred or passed, except to a company incorporated in the United States, until the

expiration of the first patent obtained in connection with such intellectual property.

"(B) For purposes of this paragraph, the term 'intellectual property' means an invention patentable under title 35, United States Code, or any patent on such an invention.

"(C) Nothing in this paragraph shall be construed to prohibit the licensing to any company of intellectual property rights arising from assistance provided under this section.".

(7) Section 28(e) of the National Institute of Standards and Technology Act (15 U.S.C. 278n(e)) is amended to read as follows:

"(e) The Secretary may, within 30 days after notice to Congress, suspend a company or joint venture from continued assistance under this section if the Secretary determines that the company, the country of incorporation of the company or a parent company, or the joint venture has failed to satisfy any of the criteria set forth in subsection (d)(9), and that it is in the national interest of the United States to do so.".

(8) Section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n) is amended by adding at the end the following new subsections:

"(f) When reviewing private sector requests for awards under the Program, and when monitoring the progress of assisted research projects, the Secretary and the Director shall, as appropriate, coordinate with the Secretary of Defense and other senior Federal officials to ensure cooperation and coordination in Federal technology programs and to avoid unnecessary duplication of effort. The Secretary and the Director are authorized to work with the Director of the Office of Science and Technology Policy, the Secretary of Defense, and other appropriate Federal officials to form interagency working groups or special project offices to coordinate Federal technology activities.

"(g) In order to analyze the need for the value of joint ventures and other research projects in specific technical fields, to evaluate any proposal made by a joint venture or company requesting the Secretary's assistance, or to monitor the progress of any joint venture or any company research project which receives Federal funds under the Program, the Secretary, the Under Secretary of Commerce for Technology, and the Director may, notwithstanding any other provision of law, meet with such industry sources as they consider useful and appropriate.

"(h) Up to 10 percent of the funds appropriated for carrying out this section may be used for standards development and technical activities by the Institute in support of the purposes of this section.

"(i) In addition to such sums as may be authorized and appropriated to the Secretary and Director to operate the Program, the Secretary and Director also may accept funds from other Federal departments and agencies for the purpose of providing Federal funds to support awards under the Program. Any Program award which is supported with funds which originally came from other Federal departments and agencies shall be selected and carried out according to the provisions of this section.

"(j) As used in this section—

"(1) the term 'joint venture' means any group of activities, including attempting to make, making, or performing a contract, by two or more persons for the purpose of—



"(A) theoretical analysis, experimentation, or systematic study of phenomena or observable facts;

"(B) the development or testing of basic engineering techniques;

"(C) the extension of investigative finding or theory of a scientific or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, prototypes, equipment, materials, and processes;

"(D) the collection, exchange, and analysis of research information;

"(E) the production of any product, process, or service; or

"(F) any combination of the purposes specified in subparagraphs (A), (B), (C), (D), and (E),

and may include the establishment and operation of facilities for the conducting of research, the conducting of such venture on a protected and proprietary basis, and the prosecuting of applications for patents and the granting of licenses for the results of such venture; and

"(2) the term 'United States-owned company' means a company that has majority ownership or control by individuals who are citizens of the United States.".

(d) EFFECTIVE DATE.—The amendments in subsection (c) shall take effect immediately upon enactment; however, the amendments shall not apply to applications submitted before the date of enactment of this Act. 15 USC 27 note.

(e) MANAGEMENT COSTS.—Section 2 of the National Institute of Standards and Technology Act (15 U.S.C. 272) is amended by adding at the end thereof the following new subsection:

"(d) In carrying out the extramural funding programs of the Institute, including the programs established under sections 25, 26, and 28 of this Act, the Secretary may retain reasonable amounts of any funds appropriated pursuant to authorizations for these programs in order to pay for the Institute's management of these programs.".

(f) COMPREHENSIVE REPORT.—The Secretary shall, not later than 4 years after the date of enactment of this Act, submit to each House of the Congress and the President a comprehensive report on the results of the Advanced Technology Program established under section 28 of the National Institute of Standards and Technology Act (15 U.S.C. 278n), including any activities in the areas of high-resolution information systems, advanced manufacturing technology, and advanced materials. 15 USC 27 note.

## TITLE III—AMENDMENTS TO THE STEVENSON-WYDLER TECHNOLOGY INNOVATION ACT OF 1980

### SEC. 301. FEDERAL LABORATORY CONSORTIUM.

(a) Section 11(e)(2) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710(e)(2)) is amended by inserting "senior" after "Consortium and a".

(b) Section 11(e)(6) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710(e)(6)) is amended by adding at the end the following: "Such report shall include an annual independent audit of the financial statements of the Consortium,

conducted in accordance with generally accepted accounting principles.".

(c) Section 11(e)(7)(B)(ii) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710(e)(7)(B)(ii)) is amended by striking "or 1991" and inserting in lieu thereof "1991, 1992, 1993, 1994, 1995, or 1996".

(d) Section 11(e)(8) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710(e)(8)) is repealed.

**SEC. 302. COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENTS.**

(a) Section 12(d)(1) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710a(d)(1)) is amended by inserting "intellectual property," after "equipment," both places it appears.

Reports.

(b) Within 6 months after the date of enactment of this Act, the Secretary shall report to the Congress on the advisability of authorizing a new form of cooperative research and development agreement which would permit Federal contributions of funds.

**SEC. 303. RESEARCH EQUIPMENT.**

Section 11 of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710) is amended by adding at the end the following new subsection:

"(i) RESEARCH EQUIPMENT.—The Director of a laboratory, or the head of any Federal agency or department, may give research equipment that is excess to the needs of the laboratory, agency, or department to an educational institution or nonprofit organization for the conduct of technical and scientific education and research activities. Title of ownership shall transfer with a gift under the section.".

**SEC. 304. DEFINITION OF FEDERAL AGENCY.**

Section 4(8) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3703(8)) is amended by inserting ", as well as any agency of the legislative branch of the Federal Government" after "of such title".

**SEC. 305. QUALITY IMPROVEMENT.**

Section 17(f) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3711a(f)) is amended by adding at the end the following: "The Director is authorized to use appropriated funds to carry out responsibilities under this Act.".

**SEC. 306. UNDER SECRETARY.**

Section 5(c) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3704(c)) is amended—

(1) by redesignating paragraphs (13) and (14) as paragraphs (14) and (15), respectively; and

(2) by inserting after paragraph (12) the following new paragraph:

"(13) serve as a focal point for discussions among United States companies on topics of interest to industry and labor, including discussions regarding manufacturing and discussions regarding emerging technologies;".



## TITLE IV—NATIONAL COMMISSION ON REDUCING CAPITAL COSTS FOR EMERGING TECHNOLOGY

Business and industry.

**SEC. 401. NATIONAL COMMISSION ON REDUCING CAPITAL COSTS FOR EMERGING TECHNOLOGY.**

15 USC 370 note.

(a) ESTABLISHMENT AND PURPOSE.—There is established a National Commission on Reducing Capital Costs for Emerging Technology (hereafter in this section referred to as the "Commission"), for the purpose of developing recommendations to increase the competitiveness of United States industry by encouraging investments in research, the development of new process and product technologies, and the production of those technologies.

(b) ISSUES.—The function of the Commission shall be to address the following issues:

(1) How has the overall cost of capital paid by United States companies differed during the past decade from that paid by companies in other industrial economies such as Germany, Japan, and the United Kingdom?

(2) To what extent has the cost of capital faced by technology companies differed from the overall cost of capital in each of these nations during the same period?

(3) To what extent do high capital costs in general inhibit investment in projects with long-term payoffs, such as the development and commercialization of new technology?

(4) To what extent does the structure of the financial services industry in the United States affect the flow of capital to advanced technology investment, and to what extent do current practices in the equity markets raise the cost of capital and inhibit the availability of capital to fund research and development, purchase advanced manufacturing equipment, and fund other investments necessary to commercialize advanced technology?

(5) In what ways do Government regulations influence the cost of capital in the United States?

(6) To what extent have national differences in capital costs facilitated the foreign acquisition of technology-based United States companies?

(7) What macroeconomic and other policies would promote greater investment in advanced manufacturing techniques, in research and development, and in other activities necessary to commercialize and produce new technologies?

(8) What specific policies should the Federal Government follow in order to reduce the cost of capital for United States companies to levels that are near parity with those faced by the Nation's principal trading partners?

(c) MEMBERSHIP.—(1) The Commission shall be composed of 9 members who are eminent in such fields as advanced technology, manufacturing, finance, and international economics and who are appointed as follows:

President.

(A) 3 individuals appointed by the President, one of whom shall chair the Commission.

(B) 3 individuals appointed by the Speaker of the House of Representatives, 1 of whom shall be appointed upon the recommendation of the minority leader of the House of Representatives.

(C) 3 individuals appointed by the President pro tempore of the Senate, 2 of whom shall be appointed upon the rec-

ommendation of the majority leader of the Senate and 1 of whom shall be appointed upon the recommendation of the minority leader of the Senate.

(2) Each member shall be appointed for the life of the Commission. A vacancy in the Commission shall be filled in the manner in which the original appointment was made.

(d) PROCEDURES.—(1) The chairman shall call the first meeting of the Commission within 90 days after the date of enactment of this Act.

(2) Recommendations of the Commission shall require the approval of three-quarters of the members of the Commission.

(3) The Commission may use such personnel detailed from Federal agencies as may be necessary to enable it to carry out its duties.

(4) Members of the Commission, other than full-time employees of the Federal Government, while attending meetings of the Commission while away from their homes or regular places of business, shall be allowed travel expenses in accordance with subchapter I of chapter 57 of title 5, United States Code.

(e) REPORTS.—The Commission shall, within 1 year after the date of enactment of this Act, submit to the President and Congress a report containing legislative and other recommendations with respect to the issues addressed under subsection (b).

(f) CONSULTATION.—The Commission shall consult, as appropriate, with the Commission on Technology and Procurement established by section 505 of this Act.

(g) TERMINATION.—The Commission shall terminate 6 months after the submission of its report under subsection (e).

(h) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out this section such sums as may be necessary for the fiscal years 1992 and 1993.

## TITLE V—STUDIES AND REPORTS

Business and industry.
42 USC 6611 note.

### SEC. 501. HIGH-RESOLUTION INFORMATION SYSTEMS ADVISORY BOARD.

(a) ESTABLISHMENT AND PURPOSE.—The Director of the Office of Science and Technology Policy shall establish within that office a High-Resolution Information Systems Advisory Board (hereafter in this section referred to as the "Board") to monitor and, as appropriate, foster the development of United States-based high-resolution information systems industries.

(b) DEFINITION.—As used in this title, the term "high-resolution information systems" means the equipment and techniques required to create, store, recover, and play back high-resolution images and accompanying sound.

(c) FUNCTIONS.—The Board shall—

(1) collect and analyze information on the range of factors which will determine whether United States-based high-resolution information systems industries will develop and become competitive, including such factors as technology policies, specialized financial problems, international standards and foreign trade practices, Federal regulations and procurement policies, and licensing practices;

(2) identify areas where appropriate cooperation between the Federal Government and the private sector, including Government support for industry-led joint research and development ventures, would enhance United States industrial competitiveness in this area, and provide advice and guidance for such cooperative efforts;

(3) provide guidance on what Federal policies and practices, particularly in such areas as procurement and the transfer of federally-funded research, are necessary to help establish United States-based high-resolution information systems industries;

(4) provide advice on the coordination of Federal defense and civilian activities to maximize and assist with the transfer of technologies in the field of high-resolution information systems into commercial products; and

(5) generally develop recommendations for guiding Federal agency activities related to the development of United States-based high-resolution information systems industries.

(d) MEMBERSHIP AND PROCEDURES.—(1)(A) The Board shall be composed of 13 members, 7 of whom shall constitute a quorum.

(B) The Director of the Office of Science and Technology Policy, the Secretary, the Director of the Defense Advanced Research Projects Agency, and the Administrator of the National Aeronautics and Space Administration, or their designees, shall serve as members of the Board.

(C) The President, acting through the Director of the Office of Science and Technology Policy, within 90 days after the date of enactment of this Act, shall appoint as additional members of the Board— President.

(i) 5 members from the private electronics manufacturing sector, drawn from such sectors as semiconductors, display equipment, computers, consumer electronics, and telecommunications, with 1 member also representing labor;

(ii) 3 members from the private nonmanufacturing sector, including 1 representative from the transmission delivery systems sector and 2 representatives drawn from such areas as the software industry, the entertainment industry, and the investment community; and

(iii) 1 member from academia.

At least 1 member appointed under this subparagraph shall be from small business.

(2) The Director of the Office of Science and Technology Policy or the Director's designee shall chair the Board.

(3) The chairman shall call the first meeting of the Board within 30 days after the appointment of members is completed.

(4) The Board may use such personnel detailed from Federal agencies as may be necessary to enable it to perform its functions.

(5) Members of the Board, other than full-time employees of the Federal Government, while attending meetings of the Board or otherwise performing duties of the Board while away from their homes or regular places of business, shall be allowed travel expenses in accordance with subchapter I of chapter 57 of title 5, United States Code.

(6) The Board shall submit a report of its activities once every year after its establishment to the President, the Committees on Science, Space, and Technology and on Energy and Commerce of the House of Representatives, and the Committee on Commerce, Science, and Transportation of the Senate.

(e) LIMITATION ON FUNCTIONS.—Nothing in this section or any other provision of this Act shall be construed—

(1) to authorize the Board to investigate or provide advice or guidance with respect to standards or other regulations

or policies related to the transmission, delivery, or receipt of broadcast television or cable television signals subject to regulation by the Federal Communications Commission under the Communications Act of 1934 (47 U.S.C. 151 et seq.); or

(2) to limit, modify, or affect in any manner the authorities, functions or responsibilities of the Federal Communications Commission or the National Telecommunications and Information Administration.

(f) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out this section such sums as may be necessary for the fiscal years 1992 and 1993.

**SEC. 502. MAJOR SCIENCE AND TECHNOLOGY PROPOSALS.**

The National Science and Technology Policy, Organization, and Priorities Act of 1976 is amended by adding at the end of title II the following new section:

"MAJOR SCIENCE AND TECHNOLOGY PROPOSALS

2 USC 6618. "SEC. 209. The Director shall identify and provide an annual report to Congress on each major multinational science and technology project, in which the United States is not a participant, which has a total estimated cost greater than $1,000,000,000.".

**SEC. 503. BIENNIAL NATIONAL CRITICAL TECHNOLOGIES REPORT AMENDMENTS.**

Section 603 of the National Science and Technology Policy, Organization, and Priorities Act of 1976 (42 U.S.C. 6683) is amended—

(1) in subsection (a), by inserting ", but shall include the most economically important emerging civilian technologies during the 10-year period following such report, together with the estimated current and future size of domestic and international markets for products derived from these technologies" after "may not exceed 30";

(2) in subsection (b), by striking "national security and" and inserting in lieu thereof "national security or";

(3) by redesignating subsection (d) as subsection (e); and

(4) by inserting after subsection (c) the following new subsection:

"(d) Each such report shall include—

"(1) an identification of the types of research and development needed to close any significant gaps or deficiencies in the technology base of the United States, as compared with the technology bases of major trading partners; and

"(2) a list of the technologies and markets targeted by major trading partners for development or capture.".

15 USC 3716. **SEC. 504. CRITICAL INDUSTRIES.**

(a) IDENTIFICATION OF INDUSTRIES AND DEVELOPMENT OF PLAN.—The Secretary shall—

(1) identify those civilian industries in the United States that are necessary to support a robust manufacturing infrastructure and critical to the economic security of the United States; and

(2) list the major research and development initiatives being undertaken, and the substantial investments being made, by the Federal Government, including its research laboratories, in each of the critical industries identified under paragraph (1).

(b) INITIAL REPORT.—The Secretary shall submit a report to the Congress within 1 year after the date of enactment of this Act on the actions taken under subsection (a).

(c) ANNUAL UPDATES.—The Secretary shall annually submit to the Congress an update of the report submitted under subsection (b). Each such update shall—

(1) describe the status of each identified critical industry, including the advances and declines occurring since the most recent report; and

(2) identify any industries that should be added to the list of critical industries.

**SEC. 505. RESEARCH, DEVELOPMENT, TECHNOLOGY UTILIZATION, AND GOVERNMENT PROCUREMENT POLICY.** 15 USC 3701 note.

(a) ESTABLISHMENT OF COMMISSION.—The Secretary, in consultation with the Administrator of the Office of Federal Procurement Policy, shall establish a Commission on Technology and Procurement (hereafter in this section referred to as the "Commission"), for the purposes of analyzing the effect of Federal Government procurement laws, procedures, and policies on the development of advanced technologies within the United States and making recommendations on how Federal policy could be changed to promote further the development of advanced technologies.

(b) ISSUES.—The Commission shall address the following issues:

(1) To what extent, if any, should Federal Government technology purchase strategies be used to give domestic suppliers a competitive advantage in new generations of existing technologies and in initial market penetration for new technologies?

(2) Under what conditions can Federal Government purchases of advanced technology-based products be based on performance specifications rather than on product specifications? Should Federal Government procurement first look to the commercial markets for products that will meet performance specifications before purchasing a unique product that has to be developed?

(3) How can the Federal Government procurement laws, practices, and procedures be used as a strategic tool to foster the use of emerging technologies?

(4) How can the Federal Government ensure that its suppliers adopt the principles embodied in the Malcolm Baldrige National Quality Award?

(5) Should Federal Government procurement practices include cooperative efforts between the supplier and the Federal entity to develop products so as to be more easily marketed on a commercial basis? Should a program for the exchange of technical personnel to foster innovation in product development be part of such practices?

(6) To what extent, if any, should Federal Government documents specify standards that are beneficial to domestic suppliers, aid the compatibility of advanced technologies, and speed the commercial acceptance of those technologies, and what would be the role of the Institute in such an effort?

(7) Should Federal Government procurement be linked to the Advanced Technology Program and to technology transfer activities so that specification development can incorporate the latest technical advances available?

(8) To what extent should worldwide, state of the art technology be required in Federal Government procurement?

(c) MEMBERSHIP AND PROCEDURES.—(1) The Commission shall be composed of 15 members, 8 of whom shall constitute a quorum.

(2) The Secretary, the Administrator of the Office of Federal Procurement Policy, the Director of the Office of Science and Technology Policy, the Secretary of Defense, and the Administrator of General Services, or their designees who serve in executive level positions, shall serve as members of the Commission.

(3) The Secretary shall appoint as members of the Commission, from among individuals not employed by the Federal Government—

(A) 4 members who are eminent in advanced technology businesses representing manufacturing and services industries, including at least 1 member representing labor;

(B) 3 members who are eminent in the fields of technology and international economic development; and

(C) with the concurrence of the Administrator of the Office of Federal Procurement Policy, 3 members who are eminent in the field of Federal Government procurement.

(4) The Secretary shall appoint a Commission chairman from among the members of the Commission. The chairman shall call the first meeting of the Commission within 90 days after the date of enactment of this Act.

(5) The Secretary and the Administrator of the Office of Federal Procurement Policy shall provide such staff as may be required by the Commission to carry out its responsibilities.

(6) Members of the Commission, other than full-time employees of the Federal Government, while attending meetings of the Commission or otherwise performing duties of the Commission while away from their homes or regular places of business, shall be allowed travel expenses in accordance with subchapter I of chapter 57 of title 5, United States Code.

(d) REPORTS.—(1) The Commission shall, within 1 year after the date of enactment of this Act, submit to the Secretary, the Administrator of the Office of Federal Procurement Policy, the President, and Congress a report containing preliminary recommendations with respect to the issues addressed under subsection (b).

(2) The Commission shall, within 2 years after the date of enactment of this Act, submit to the Secretary and Congress a final report containing final recommendations with respect to the issues addressed under subsection (b).

(e) CONSULTATION.—The Commission shall consult, as appropriate, with the National Commission on Reducing Capital Costs for Emerging Technology.

(f) TERMINATION.—The Commission shall terminate 6 months after the submission of its final report under subsection (d)(2).

(g) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out this section such sums as may be necessary for the fiscal years 1992, 1993, and 1994.

**SEC. 506. REPORT ON INFORMATION COLLECTION AND DISSEMINATION.**

(a) REPORT.—Within 270 days after the date of enactment of this Act, the Secretary shall report to the Committee on Science, Space, and Technology of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate on the feasibility of establishing and operating a Federal Online Information Product Catalog (FEDLINE) at the National Technical Information Service which would serve as a comprehensive inventory and authorizative register of information products and services disseminated by the Federal Government and assist agencies and the public in locating Federal Government information. Information protected from public disclosure shall not be included. In studying the concept, the Secretary, acting through the Under Secretary and the Director of the National Technical Information Service, shall consult with officials from appropriate Government agencies, including the Office of Management and Budget, the National Archives, the Government Printing Office, and the Institute, and with representatives of the public, for their views on the optimal composition and format of FEDLINE. Such report shall contain cost estimates and possible funding sources for establishing and operating FEDLINE and shall list any changes in law and regulation that would be required if FEDLINE were to be implemented.

(b) FUNDING.—The Director of the National Technical Information Service may retain and use all monies received, including receipts, revenues, and advanced payments and deposits, to fund obligations and expenses through the end of fiscal year 1993.

(c) ELECTRONIC FORMAT.—Section 212(e)(5) of the National Technical Information Act of 1988 (15 U.S.C. 3704b(e)(5)) is amended by inserting ", including producing and disseminating information products in electronic format" after "engineering information".

**SEC. 507. NATIONAL QUALITY COUNCIL.** 15 USC 37

(a) ESTABLISHMENT AND FUNCTIONS.—There is established a National Quality Council (hereafter in this section referred to as the "Council"). The functions of the Council shall be—

(1) to establish national goals and priorities for Quality performance in business, education, government, and all other sectors of the Nation;

(2) to encourage and support the voluntary adoption of these goals and priorities by companies, unions, professional and business associations, coalition groups, and units of government, as well as private and nonprofit organizations;

(3) to arouse and maintain the interest of the people of the United States in Quality performance, and to encourage the adoption and institution of Quality performance methods by all corporations, government agencies, and other organizations; and

(4) to conduct a White House Conference on Quality Performance in the American Workplace that would bring together in a single forum national leaders in business, labor, education, professional societies, the media, government, and politics to address Quality performance as a means of improving United States competitiveness.

(b) MEMBERSHIP.—The Council shall consist of not less than 17 or more than 20 members, appointed by the Secretary. Members shall include—

(1) at least 2 but not more than 3 representatives from manufacturing industry;

(2) at least 2 but not more than 3 representatives from service industry;

(3) at least 2 but not more than 3 representatives from national Quality not-for-profit organizations;

(4) two representatives from education, one with expertise in elementary and secondary education, and one with expertise in post-secondary education;

(5) one representative from labor;

(6) one representative from professional societies;

(7) one representative each from local and State government;

(8) one representative from the Federal Quality Institute;

(9) one representative from the National Institute of Standards and Technology;

(10) one representative from the Department of Defense;

(11) one representative from a civilian Federal agency not otherwise represented on the Council, to be rotated among such agencies every 2 years; and

(12) one representative from the Foundation for the Malcolm Baldrige National Quality Award.

(c) TERMS.—The term of office of each member of the Council appointed under paragraphs (1) through (7) of subsection (b) shall be 2 years, except that when making the initial appointments under such paragraphs; the Secretary shall appoint not more than 50 percent of the members to 1 year terms. No member appointed under such paragraphs shall serve on the Council for more than 2 consecutive terms.

(d) CHAIRMAN AND VICE CHAIRMAN.—The Secretary shall designate one of the members initially appointed to the Council as Chairman. Thereafter, the members of the Council shall annually elect one of their number as Chairman. The members of the Council shall also annually elect one of their members as Vice Chairman. No individual shall serve as Chairman or Vice Chairman for more than 2 consecutive years.

(e) EXECUTIVE DIRECTOR AND EMPLOYEES.—The Council shall appoint and fix the compensation of an Executive Director, who shall hire and fix the compensation of such additional employees as may be necessary to assist the Council in carrying out its functions. In hiring such additional employees, the Executive Director shall ensure that no individual hired has a conflict of interest with the responsibilities of the Council.

(f) FUNDING.—There is established in the Treasury of the United States a National Quality Performance Trust Fund, into which all funds received by the Council, through private donations or otherwise, shall be deposited. Amounts in such Trust Fund shall be available to the Council, to the extent provided in advance in appropriations Acts, for the purpose of carrying out the functions of the Council under this Act.

(g) CONTRIBUTIONS.—The Council may not accept private donations from a single source in excess of $25,000 per year. Private donations from a single source in excess of $10,000 per year may be accepted by the Council only on approval of two-thirds of the Council.

(h) ANNUAL REPORT.—The Council shall annually submit to the President and the Congress a comprehensive and detailed report on—

(1) the progress in meeting the goals and priorities established by the Council;

(2) the Council's operations, activities, and financial condition;

(3) contributions to the Council from non-Federal sources;

(4) plans for the Council's operations and activities for the future; and



(5) any other information or recommendations the Council considers appropriate.

**SEC. 508. STUDY OF TESTING AND CERTIFICATION.** 15 USC 37( note.

(a) CONTRACT WITH NATIONAL RESEARCH COUNCIL.—Within 90 days after the date of enactment of this Act and within available appropriations, the Secretary shall enter into a contract with the National Research Council for a thorough review of international product testing and certification issues. The National Research Council will be asked to address the following issues and make recommendations as appropriate:

(1) The impact on United States manufacturers, testing and certification laboratories, certification organizations, and other affected bodies of the European Community's plans for testing and certification of regulated and nonregulated products of non-European origin.

(2) Ways for United States manufacturers to gain acceptance of their products in the European Community and in other foreign countries and regions.

(3) The feasibility and consequences of having mutual recognition agreements between testing and certification organizations in the United States and those of major trading partners on the accreditation of testing and certification laboratories and on quality control requirements.

(4) Information coordination regarding product acceptance and conformity assessment mechanisms between the United States and foreign governments.

(5) The appropriate Federal, State, and private roles in coordination and oversight of testing, certification, accreditation, and quality control to support national and international trade.

(b) MEMBERSHIP.—In selecting the members of the review panel, the National Research Council shall consult with and draw from, among others, laboratory accreditation organizations, Federal and State government agencies involved in testing and certification, professional societies, trade associations, small business, and labor organizations.

(c) REPORT.—A report based on the findings and recommendations of the review panel shall be submitted to the Secretary, the President, and Congress within 18 months after the Secretary signs the contract with the National Research Council.

**SEC. 509. REPORT ON A STRATEGY TO STIMULATE COMPETITIVE RESEARCH.**

(a) IN GENERAL.—No later than 120 days after the date of enactment of this Act, the Director of the Office of Science and Technology Policy shall submit to Congress a report presenting a proposed strategy for improving the university research capabilities of those States which historically have received relatively little Federal research and development funding. The report shall particularly—

(1) analyze recent steps to use the National Science Foundation's Experimental Program to Stimulate Competitive Research as a model for similar programs in several other Federal departments and agencies which fund research and development; and

(2) examine the feasibility and advisability of using that Program as a model for Federal research and development agencies which do not currently have similar programs.

(b) ANALYSIS AND DISCUSSION.—The report shall include an analysis and discussion of—

(1) the geographic distribution of Federal research and development grants and contracts;

(2) current Federal efforts to stimulate competitive research; and

(3) the feasibility and advisability of new Federal programs to stimulate competitive research.

SEC. 510. INTERAGENCY COORDINATION.

The Secretary shall, within 180 days after the date of enactment of this Act, submit to the Committee on Science, Space, and Technology and the Committee on Energy and Commerce of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate, a plan for coordination of Commerce Department efforts with other Federal agencies for activities related to high-resolution information systems, including research and development activities.

Approved February 14, 1992.

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SENATE REPORTS: No. 102-157 accompanying S. 1034 (Comm. on Commerce, Science, and Transportation).
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