Calendar No. 379

103D CONGRESS
2D SESSION

S. 1040

[Report No. 103–234]

A BILL

To support systemic improvement of education and the development of a technologically literate citizenry and internationally competitive work force by establishing a comprehensive system through which appropriate technology-enhanced curriculum, instruction, and administrative support resources and services, that support the National Education Goals and any national education standards that may be developed, are provided to schools throughout the United States.

MARCH 9 (legislative day, FEBRUARY 22,) 1994

Reported with an amendment

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IN THE SENATE OF THE UNITED STATES

MAY 27 (legislative day, APRIL 19), 1993

Mr. BINGAMAN (for himself, Mr. KENNEDY, Mr. COCHRAN, Mr. HARKIN, Mr. CONRAD, Mr. KERREY, Mr. INOUYE, Mr. JEFFORDS, Mr. REID, Mr. THURMOND, Mrs. BOXER, Ms. MIKULSKI, Mr. SARBANES, Mr. DODD, Mr. GREGG, and Mr. PELL) introduced the following bill; which was read twice and referred to the Committee on Labor and Human Resources

MARCH 9 (legislative day, FEBRUARY 22), 1994

Reported by Mr. KENNEDY, with an amendment

[Strike out all after the enacting clause and insert the part printed in italic]

A BILL

To support systemic improvement of education and the development of a technologically literate citizenry and internationally competitive work force by establishing a comprehensive system through which appropriate technology-enhanced curriculum, instruction, and administrative

support resources and services, that support the National Education Goals and any national education standards that may be developed, are provided to schools throughout the United States.

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

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) SHORT TITLE.—This Act may be cited as the "Technology for Education Act of 1993".

(b) TABLE OF CONTENTS.—The table of contents of this Act is as follows:

Sec. 1. Short title; table of contents.
Sec. 2. Findings.
Sec. 3. Statement of purpose.
Sec. 4. Definitions.

TITLE I—LEADERSHIP FOR TECHNOLOGY IN EDUCATION

Sec. 101. Office of Educational Technology.
Sec. 102. National Commission on Technology in Education.

TITLE II—SCHOOL TECHNOLOGY SUPPORT

Sec. 201. Statement of purposes.
Sec. 202. State technology planning grants.
Sec. 203. Elementary and secondary school library and media services.
Sec. 204. School technology resource grants and loans.
Sec. 205. Information dissemination.

TITLE III—INFORMATION DISSEMINATION, TECHNOLOGY TRAINING AND TECHNICAL ASSISTANCE

Sec. 301. Statement of purpose.
Sec. 302. Electronic dissemination network.
Sec. 303. Regional implementation and assistance.
Sec. 304. Authorization of appropriations.

TITLE IV—EDUCATIONAL TECHNOLOGY PRODUCT DEVELOPMENT, PRODUCTION, AND DISTRIBUTION

Sec. 401. Statement of purpose.
Sec. 402. Priority in federally supported education programs.
Sec. 403. Classrooms for the future.
Sec. 404. Instructional broadcasting and video instructional programming.
Sec. 405. Star Schools Program.

~~TITLE V—EDUCATIONAL TECHNOLOGY RESEARCH, DEVELOPMENT AND ASSESSMENT~~

~~Sec. 501. Purposes.~~
~~Sec. 502. Application of advanced technologies to education.~~
~~Sec. 503. High performance educational computing and telecommunications networks.~~
~~Sec. 504. Assessment of technology in education.~~

~~TITLE VI—MISCELLANEOUS~~

~~Sec. 601. Study of systemic funding alternatives.~~
~~Sec. 602. Participation of private school children.~~

~~SEC. 2. FINDINGS.~~

~~The Congress finds that with respect to the use of technology to improve education in America—~~

~~(1) the use of technology as a tool in the learning process is essential to the development and maintenance of a technologically literate citizenry and internationally competitive work force;~~

~~(2) technology-enhanced curriculum, instruction, and administrative support resources and services that support the National Education Goals and any national education standards that may be developed are needed and can be used for the systemic improvement of all aspects of education;~~

~~(3) the acquisition and use of technology in education throughout the United States has been inhibited by the absence of Federal leadership, the inability of many State and local educational agencies to invest in and support the needed technologies, and the limited availability of appropriate tech-~~

~~nology-enhanced curriculum, instruction, teacher training, and administrative support resources and services in the educational marketplace;~~

~~(4) national educational technology standards and national educational technology application standards should be developed for both hardware and software;~~

~~(5) the acquisition and use of technology-enhanced curriculum, instruction, and administrative support resources and services by elementary and secondary schools in the United States must be supported by a comprehensive system which includes—~~

~~(A) national leadership with respect to the need for, and the provision of, appropriate technology-enhanced curriculum, instruction, and administrative programs and services for educational institutions in the United States and the schools of the defense dependents' education system;~~

~~(B) funding mechanisms which will support development interconnection, implementation, improvement and maintenance of an effective educational technology infrastructure for all learners in the United States;~~

~~(C) information dissemination networks to facilitate access to information on effective learning programs, assessment and evaluation of such programs, research findings, and supporting resources (including instructionally based, technology-enhanced programs, research, and resources) by educators throughout the United States;~~

~~(D) information regarding curriculum content standards, teacher performance standards, opportunity to learn standards, and assessments and standards for integrating technology into curriculum and instruction;~~

~~(E) an extensive variety of opportunities for teacher education, inservice training, and administrator training and technical assistance with respect to effective uses of technologies in education;~~

~~(F) consortia for the development, production, distribution, and reuse of technology-enhanced curriculum, instruction and administrative support resources and services with Federal assistance;~~

~~(G) building upon, and not duplicating, existing telecommunications infrastructure dedicated to educational purposes;~~

~~(H) development and evaluation of new and emerging educational technologies and telecommunications networks; and~~

~~(I) assessment data regarding state-of-the-art uses of technologies in United States education upon which businesses, noncommercial telecommunications entities, and governments can rely for decisionmaking about the need for, and provision of, appropriate technologies for education in the United States;~~

~~(6) educational equalization concerns and school restructuring needs can be addressed through educational telecommunications and technology by offering universal access to high-quality teaching and programs, particularly in urban and rural areas;~~

~~(7) in an increasingly technological world where technology and telecommunications have become an integral part of many households, the disparity between rich and poor students will become even greater, and educational policies must address such disparity;~~

~~(8) the increasing use of new technologies and telecommunications systems in business has furthered the gap between schooling and work force preparation; and~~

~~(9) improved professional development for teachers requires constant access to updated research in teaching and learning, and telecommunications can be the conduit for ongoing teacher training.~~

~~SEC. 3. STATEMENT OF PURPOSE.~~

~~It is the purpose of this Act—~~

~~(1) to develop and maintain a technologically literate citizenry and internationally competitive work force by encouraging systemic integration of technology and telecommunications in all aspects of education in the United States;~~

~~(2) to promote greater equality of educational opportunity and instruction among school districts through the use of technology to improve the academic achievements of all students, in general, and disadvantaged, disabled, and limited-English proficient students, in particular;~~

~~(3) to improve educational quality and opportunity by expanding and improving technology in the school, classroom, library, and home;~~

~~(4) to develop educational and instructional programming in critical subject areas which address the National Education Goals;~~

~~(5) to expand teacher training opportunities for the use of such technology;~~

~~(6) to avoid duplication and the development of incompatible systems by strengthening and building upon existing telecommunications infrastructure dedicated to educational purposes;~~

~~(7) to establish a National Commission on Technology in Education to periodically assess national requirements, make recommendations with respect to the use of technology and telecommunications in public and private elementary and secondary education throughout the United States, and advise the Congress with respect to funding priorities and needed policies; and~~

~~(8) to establish within the Department of Education, a high level office with primary responsibility for—~~

~~(A) providing national leadership for universal access to effective uses of telecommunications and educational technologies for teaching and learning;~~

~~(B) facilitating access to a broad range of information resources for teachers, learners, and others engaged in education;~~

~~(C) establishing technical standards and guidelines for advanced technologies, including software as well as hardware, and instructional software as well as software for operating systems and communications;~~

~~(D) establishing funding mechanisms which will support the development and maintenance of an effective educational technology infrastructure for all learners in the United States;~~

~~(E) providing for sustained teacher, administrator and other school personnel education and support for using technologies;~~

~~(F) supporting development, production, distribution, and reuse of information resources and strategies;~~

~~(G) promoting development and evaluation of new and emerging educational technologies;~~

~~(H) stimulating private and public partnerships;~~

~~(I) stimulating partnerships between—~~

~~(i) noncommercial telecommunications entities; and~~

~~(ii) public schools, local educational agencies or State educational agencies;~~

~~(J) stimulating private sector investment in the development, production, and distribution of technology-enhanced curriculum, instruction, and administrative support resources and services; and~~

~~(K) developing and administering a comprehensive system of information dissemination, technical assistance, training, research, and assessment activities which will enable all schools to effectively utilize appropriate technology-enhanced curriculum, instruction, and administrative support resources and services.~~

~~SEC. 4. DEFINITIONS.~~

~~(a) IN GENERAL.—The terms used in this Act, unless otherwise specified, shall have the same meaning given to such terms by section 1471 of the Elementary and Secondary Education Act of 1965.~~

~~(b) ADDITIONAL DEFINITIONS.—For the purpose of this Act—~~

~~(1) the term ''Assistant Secretary'' means the Assistant Secretary for Educational Technology;~~

~~(2) the term ''Office'' means the Office of Educational Technology;~~

~~(3) the term ''noncommercial telecommunications entity'' has the same meaning given to such term by section 397(7) of the Communications Act of 1934; and~~

~~(4) the term ''technology'' includes closed circuit television systems, educational television and radio broadcasting, cable television, satellite, copper and fiber optic transmission, computer, video and audio laser and CD ROM discs, video and audio tapes or other technologies.~~

~~TITLE I—LEADERSHIP FOR TECHNOLOGY IN EDUCATION~~

~~SEC. 101. OFFICE OF EDUCATIONAL TECHNOLOGY.~~

~~(a) AMENDMENT TO THE DEPARTMENT OF EDUCATION ORGANIZATION ACT.—~~

~~(1) ASSISTANT SECRETARY.—(A) Section 202 of the Department Organization Act (20 U.S.C. 3412(b)(1)) is amended—~~

~~(i) in subparagraph (F), by striking ''and'' after the semicolon;~~

~~(ii) by redesignating subparagraph (G) as subparagraph (H); and~~

~~(iii) by adding after subparagraph (F) the following new subparagraph:~~

~~''(G) an Assistant Secretary for Educational Technology; and''.~~

~~(B) Section 5314 of title 5, United States Code, is amended by adding at the end the following new item:~~

~~''Assistant Secretary for Educational Technology''.~~

~~(2) OFFICE OF EDUCATIONAL TECHNOLOGY.—Title II of the Department of Education Organization Act (20 U.S.C. 3411 et seq.) is amended by adding at the end the following new section:~~

~~''OFFICE OF EDUCATIONAL TECHNOLOGY~~

~~''SEC. 216. (a) There shall be in the Department of Education an Office of Educational Technology, to be administered by the Assistant Secretary for Educational Technology. Such Office shall be established in accordance with section 405A of the General Education Provisions Act.~~

~~''(b) The Assistant Secretary for Educational Technology shall have demonstrated expertise and experience in the application of a broad range of technologies for instruction and educational management, and in planning and formulating policy pertaining to technology use, development and application at several levels in the education~~

system but with specific emphasis on experience in the kindergarten through 12th grade.

''(c) There shall be in the Office of Educational Technology a Division of Elementary and Secondary School Library Media Services, to be administered by the Director of the Division. Such Division shall be established in accordance with section 405B of the General Education Provisions Act.''.

(b) AMENDMENT TO THE GENERAL EDUCATION PROVISIONS ACT.—Part A of the General Education Provisions Act (20 U.S.C. 1221e et seq.) is amended by inserting after section 405 the following new section:

''SEC. 405A. OFFICE OF EDUCATIONAL TECHNOLOGY.

''(a) ESTABLISHMENT.—

''(1) OFFICE ESTABLISHED.—The Secretary shall establish an Office of Educational Technology (hereafter in this section referred to as the 'Office') within 90 days after the date of enactment of the Technology for Education Act of 1993. The Office shall be the principal technology unit in the Department of Education and shall be responsible for assisting schools in obtaining and utilizing technology.

''(2) PERSONNEL.—

''(A) IN GENERAL.—The Assistant Secretary for Educational Technology (hereafter in

~~this section referred to as the ''Assistant Secretary'') may appoint personnel in accordance with title 5 of the United States Code, and may compensate such personnel in accordance with the General Schedule described in section 5332 of title 5, United States Code.~~

~~''(B) EXPERTS AND CONSULTANTS.—The Assistant Secretary may procure temporary and intermittent services under section 3019(b) of title 5, United States Code, if the individual performing such services, by virtue of such individual's education or training and experience, is eminently qualified to assist the Office in performing the functions of the Office.~~

~~''(3) ADMINISTRATIVE SUPPORT.—To the greatest extent possible, the Assistant Secretary shall utilize existing administrative support services of the Department of Education in accomplishing the functions of the Office. However, the Assistant Secretary is authorized to obtain any or all requisite administrative support services required by the Office through competitive contracting with a private sector enterprise or through noncompetitive, reimbursable service agreements with any other Federal department, agency or governmental entity. The As-~~

~~sistant Secretary shall have sole responsibility for determining whether any or all of the administrative support requirements of the Office may be more efficiently provided by existing administrative support services within the Department of Education, by a private sector enterprise, or by a governmental entity outside the Department of Education.~~

~~"(4) REPORTING REORGANIZATIONS.—Any change in the functions or reorganization of the Office as established by this Act shall be reported to the Congress prior to implementation of the change or reorganization.~~

~~"(b) FUNCTIONS OF THE OFFICE.—The Assistant Secretary, through the Office, shall—~~

~~"(1) provide national leadership for policy development and coordinate technology-related education activities within the Department of Education;~~

~~"(2) be an advisor within the Department of Education for the design, coordination, and evaluation of any technology-enhanced network or system used for the transfer and dissemination of information through activities and programs such as the education resources information clearinghouses, the National Diffusion Network, the regional mathe-~~

~~matics and science education consortia assisted under subpart 2 of part A of title II of the Elementary and Secondary Education Act of 1965, and the National Clearinghouse for Science, Mathematics and Technology Education;~~

~~''(3) administer a comprehensive school technology support system of grants, loans, and alternative systemic funding sources to encourage—~~

~~''(A) State and local educational agency planning for the use of technology in education;~~

~~''(B) the acquisition and use of technology advanced information management resources by public or private elementary and secondary school library media centers, which resources shall build upon existing infrastructure; and~~

~~''(C) the acquisition, development and maintenance of technology-enhanced curriculum, instruction, and administrative support resources and services for school classrooms and administrative offices, which resources and services shall build upon existing infrastructure in order to avoid duplication;~~

~~''(4) consult, cooperate and coordinate educational technology programs with analogous programs of other Federal departments, agencies and~~

other entities, including the National Science Foundation, the Federal Coordinating Council for Science Engineering and Technology, the Corporation for Public Broadcasting, and Public Telecommunications Facilities Program and, whenever possible, initiate agreements for joint funding of such educational technology and analogous programs;

"(5) support the research, design, development, production, distribution, reuse and evaluation by public or private agencies, nonprofit organizations, colleges and universities, or individuals, or by combinations thereof, of new technology-enhanced curriculum, instruction, and administrative support resources and services which hold promise for improving the effectiveness of education in the United States;

"(6) make recommendations to all Federal departments and agencies for wider application of the use of technology in federally supported education programs within such departments and agencies;

"(7) support and encourage cooperative efforts to resolve issues which have served as impediments to the use of educational technologies, such as State requirements for teacher certification, incompatibility of various technological systems, and lack of

~~access to telecommunications linkages in the classroom;~~

~~"(8) establish and administer alternative mechanisms for financing the planning, implementation, and maintenance of a telecommunications and educational technology infrastructure to serve education at all levels;~~

~~"(9) regularly convene meetings of educators, policy makers, business leaders and telecommunications and educational technology vendors, and representatives of noncommercial telecommunications entities and service providers in order to—~~

~~"(A) support appropriate public and private partnerships for more effective cooperation leading to improvements in the design and development of new technologies for application in education; and~~

~~"(B) benefit the effective integration of technologies to enhance and support teaching and learning;~~

~~"(10) support research on advanced learning technologies in cooperation with other Federal departments, agencies, and programs, including the Advanced Research Projects Agency (ARPA) of the Department of Defense, the Advanced Technology~~

~~Program of the Department of Commerce, the Corporation for Public Broadcasting, the Department of Labor, the National Science Foundation, the Department of Energy, the National Aeronautics and Space Administration, and the Department of Defense;~~

~~"(11) identify and analyze Federal and State policies' impact on present and future uses of technologies in education;~~

~~"(12) support and encourage cooperative efforts to develop standards and guidelines for the use of technology in Federal, State and local education programs;~~

~~"(13) promote collaboration among government, business, educational organizations, and other nonprofit organizations and noncommercial telecommunications entities, to expand and improve the use of technology in education;~~

~~"(14) support a variety of opportunities for teacher, librarian, administrator and other school personnel education and inservice training regarding the effective uses of educational technologies through institutions of higher education, regional educational laboratories and centers, State and local educational agencies, museums, science centers, noncommercial~~

~~telecommunications entities or other institutions conducting training;~~

~~"(15) annually evaluate the level of implementation of, and the impact on teaching and learning resulting from, programs, projects and activities for which the Office is responsible;~~

~~"(16) support inclusion of technology applications, as appropriate, in the development of National Education Goals, reform initiatives, and assessment systems;~~

~~"(17) develop criteria that identify programs, projects, and practices that effectively use technologies for national dissemination;~~

~~"(18) develop, and update periodically, in cooperation with other Federal, State and regional agencies, and noncommercial telecommunications entities, as appropriate, a long-range strategic plan for implementing telecommunications and educational technologies in all schools;~~

~~"(19) assess and determine school technology needs such as development, training and equipment linkages;~~

~~"(20) review factors such as cost, dissemination, audience, accessibility, and usage in determining the maximum value of various technologies;~~

~~"(21) develop and administer special programs for students who are academically disadvantaged, impaired or limited in their use of the English language, in order to make available affordable infrastructure or appropriate methods of instruction that will improve such students' ability to attain a high level of academic achievement;~~

~~"(22) coordinate Federal, State, and local telecommunications franchising authorities for purposes of favorable rate regulations governing educational uses of telecommunications;~~

~~"(23) provide leadership for the development of universal connections for educational and information providers to national high performance educational computing and communications networks, including the National Research Education Network and Telstar 401, that will allow educational professionals, students, parents, and the general public to access resources available through such networks;~~

~~"(24) support and coordinate the activities of the regional educational technology assistance consortia described in section 304 of the Technology for Education Act of 1993 to enable schools to utilize technology-enhanced curriculum, instruction, and administrative support resources and services; and~~

~~''(25) provide an annual report to the Secretary and the Congress, documenting progress toward implementing the provisions of the Technology for Education Act of 1993.~~

~~''(c) ADDITIONAL OFFICE ACTIVITIES.—The Assistant Secretary shall provide technical support related to the application of educational technologies and the use of telecommunication resources to assist in the dissemination of resources identified for dissemination by the Office of Training Technology Transfer, the education resources information clearinghouses, the National Diffusion Network, and the Assistant Secretary on behalf of the Star Schools Program Assistance Act.~~

~~''(d) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $3,000,000 for fiscal year 1994, and such sums as may be necessary for each of the fiscal years 1995 through 1998.''.~~

~~SEC. 102. NATIONAL COMMISSION ON TECHNOLOGY IN EDUCATION.~~

~~(a) ESTABLISHMENT.—There is established a commission to be known as the National Commission on Technology in Education (hereafter in this section referred to as the ''Commission'') which shall advise the President and the Congress with respect to the need for, and the provision of, appropriate national educational technology~~

~~standards, technology-enhanced curriculum, instruction, and administrative resources and services for educational institutions in the United States.~~

~~(b) MEMBERSHIP.—~~

~~(1) APPOINTMENT OF MEMBERS.—The President shall appoint 15 members to the Commission, of which—~~

~~(A) three shall be appointed because of their expertise in State and local government;~~

~~(B) three shall be appointed because of their expertise in the governance or supervision of school district operations, in administering State- or district-wide educational technology programs, in administering elementary or secondary schools, or in the development of technology-enhanced curriculum, instruction, or administrative support programs or services;~~

~~(C) four shall be appointed because of their expertise in providing instructional services in university, community college, secondary school, elementary school, preschool, and adult and continuing education environments;~~

~~(D) two shall be—~~

~~(i) a parent of a school age child; or~~

~~(ii) a State or local school board member; and~~

~~(E) three shall be appointed because of their expertise in the telecommunications industry (including noncommercial communications), the computer hardware or software industry, or the educational technology resources and services industry.~~

~~(2) TERMS.—~~

~~(A) IN GENERAL.—Except as provided in subparagraph (B), members of the Commission shall be appointed for terms of 4 years. Members of the Commission may be reappointed.~~

~~(B) STAGGERED TERMS.—As designated by the President at the time of initial appointments under paragraph (1), the terms of 5 members shall expire at the end of 3 years, the terms of 5 members shall expire at the end of 4 years, and the terms of 5 members shall expire at the end of 5 years.~~

~~(3) DATE.—The appointments of members of the Commission shall be made not later than 90 days after the date of enactment of this Act.~~

~~(4) DIVERSITY.—The President shall make appointments to the Commission by providing due con-~~

~~sideration to gender and ethnicity in order to obtain members who are broadly representative of the ethnic diversity of the United States.~~

~~(5) LIMITATION ON DUAL APPOINTMENTS.—A member of the Commission may not serve on any other governing or advisory board within—~~

~~(A) the Department of Education; or~~

~~(B) any other department or agency of the Federal Government.~~

~~(6) CONFIRMATION.—Appointments to the Commission shall be effective upon confirmation by the United States Senate.~~

~~(7) SELECTION OF CHAIRPERSON.—The members of the Commission shall elect a Chairperson from among their membership by majority vote of the members of the Commission. The Chairperson shall serve a term of not more than 4 years.~~

~~(8) COMPENSATION OF MEMBERS.—Each member of the Commission shall be compensated at a rate equal to the daily equivalent of the annual rate of pay for level IV of the Executive Schedule under section 5316 of title 5, United States Code, for each day (including traveltime) during which such member is engaged in the performance of duties of the~~

~~Commission, as authorized by the Chairperson of the Commission.~~

~~(c) PERSONNEL.—~~

~~(1) ADMINISTRATIVE AND CLERICAL SUPPORT.—The Commission shall receive administrative support services from the Office.~~

~~(2) EXECUTIVE SECRETARY.—The Assistant Secretary shall serve as the Executive Secretary of the Commission in order to facilitate accomplishment of the Commission's functions.~~

~~(d) MEETINGS OF THE COMMISSION.—~~

~~(1) APPLICABILITY OF THE GOVERNMENT IN THE SUNSHINE ACT.—The provisions of the Government in the Sunshine Act (5 U.S.C. 552b) shall apply to meetings of the Commission.~~

~~(2) MINIMUM NUMBER OF MEETINGS; FIRST MEETING.—The Commission shall meet at least twice a year, with the first meeting being held within 120 days of the date of enactment of this Act.~~

~~(3) FREQUENCY OF MEETINGS.—With the approval of the Chairperson of the Commission and subject to the availability of funds appropriated pursuant to the authority of subsection (f), members of the Commission may meet as often as the Commis-~~

~~sion determines necessary in order to accomplish the functions of the Commission in a timely manner.~~

~~(4) QUORUM.—A majority of the Commission shall constitute a quorum for the purpose of conducting the business of the Commission.~~

~~(e) FUNCTIONS.—The functions of the Commission are as follows:~~

~~(1) IDENTIFY NATIONAL EDUCATIONAL TECHNOLOGY REQUIREMENTS.—~~

~~(A) TECHNOLOGY INITIATIVES.—The Commission shall review Federal, State, and local educational technology initiatives, assess their effectiveness and potential for the improvement of education, and make recommendations to the Secretary and the Congress with respect to what technologies are needed and should be made available to learners in the United States.~~

~~(B) NEEDS.—The Commission shall review the needs of schools and educational institutions for technology, and make Federal policy recommendations for meeting such needs. Such review shall include factors such as equity, accessibility, how many children are reached, cost, quality and demonstrated effectiveness.~~

~~(2) PROVIDE RECOMMENDATIONS WITH RESPECT TO DEPARTMENTAL TECHNOLOGY IN EDUCATION PROGRAMS. The Commission shall review and make recommendations to the Secretary and the Assistant Secretary with respect to the need for, operation of, effectiveness of, and support and resources available for, educational technology programs and policies throughout the Department of Education and within the Office.~~

~~(3) INDUSTRY, TECHNOLOGY AND EDUCATIONAL CONSORTIA. The Commission shall encourage the development of consortia consisting of a representative of the telecommunications and technology industries, and the education community, in order to promote the collaborative development and implementation of educational technologies, projects, and practices that allow for the sharing of public and private resources to enhance school achievement.~~

~~(4) MAKE RECOMMENDATIONS WITH RESPECT TO THE COORDINATION OF FEDERAL PROGRAMS. The Commission shall review support and resources available for educational technologies used in Federal programs operating on the date of enactment of this Act and make recommendations to the Secretary and the Congress with respect to the coordi-~~

~~nation and resource level required to achieve the most effective Federal support for educational technology needs.~~

~~(5) DEVELOP POLICY RECOMMENDATIONS.—The Commission shall consult with persons having an interest in the uses of technology to support teaching and learning in order to ensure that the interests and concerns of all citizens are represented in national policies for the development, implementation and evaluation of the educational technology infrastructure of the United States.~~

~~(6) COMMITTEE OF EXPERTS.—The Commission shall appoint a committee of experts representing the telecommunication, computer hardware and software industries, educational software developers, noncommercial telecommunications entities, and the elementary and secondary education community to explore the feasibility and desirability of national education guidelines or standards for educational hardware and software. Such committee shall produce a report which, at a minimum, examines—~~

~~(A) standards to ensure that software can be used on the variety of hardware likely to be available in schools;~~

~~(B) multimedia standards to allow for the integration of video and audio recordings with text and computer graphics;~~

~~(C) user interface standards so that teachers and students will not have to learn totally new techniques for using new software packages;~~

~~(D) database interface standards so that students can integrate information from national databases into their work;~~

~~(E) communication standards such as those for information exchange and video compression;~~

~~(F) interface standards so that educational software and other technology may be integrated together in a way that is easy to use and maintain; and~~

~~(G) standards for collecting data about student performance and achievement to guide individual instructional paths and the refinement of curriculum.~~

~~(6) REPORT.—~~

~~(A) IN GENERAL.—The Commission shall prepare and submit to the President, the Secretary and the Congress a report every 2 years~~

~~on the need for the development and implementation of instructionally based technologies in educational curriculum throughout the United States. At a minimum, the Commission's report shall include recommendations with respect to the status of the implementation of the provisions of this Act.~~

~~(B) SUBMISSION.—The report described in subparagraph (A) shall be submitted in accordance with such subparagraph within 2 years of the date of enactment of this Act and every 2 years thereafter.~~

~~(f) AUTHORIZATION OF APPROPRIATIONS.—~~

~~(1) SALARIES AND EXPENSES.—There are authorized to be appropriated $1,500,000 for each of the fiscal years 1994 through 1998 for the salaries and expenses of the Commission.~~

~~(2) FUNCTIONS.—There are authorized to be appropriated $1,000,000 for fiscal year 1994, and such sums as may be necessary for each of the fiscal years 1995 through 1998, to carry out this section.~~

~~TITLE II—SCHOOL TECHNOLOGY SUPPORT~~

~~SEC. 201. STATEMENT OF PURPOSES.~~

~~It is the purpose of this title to provide Federal assistance in the form of loans, grants, and systemic funding alternatives to support the acquisition, training, use and maintenance in elementary and secondary schools of technology-enhanced curriculum, instruction, and school administration.~~

~~SEC. 202. STATE TECHNOLOGY PLANNING GRANTS.~~

~~(a) PURPOSE.—It is the purpose of this section to ensure that all States have effective plans for the provision of technology in all schools throughout the State.~~

~~(b) GRANTS AUTHORIZED.—~~

~~(1) IN GENERAL.—The Assistant Secretary shall award grants to State educational agencies, who in consultation with the Governor and other appropriate State agencies, shall develop a systemic statewide plan to infuse modern technologies into an educational program to enhance student learning and staff development in support of the National Education Goals and State academic standards.~~

~~(2) REQUIREMENTS.—Such plan shall—~~

~~(A) develop and implement a high speed, statewide, interoperable, wide area communica-~~

~~tion educational technology infrastructure for all elementary and secondary education institutions within the State; and~~

~~(B) emphasize the participation of schools with a high percentage of disadvantaged students.~~

~~(c) CONTENT OF PLANS.—At a minimum, each systemic statewide plan described in subsection (b) that is developed in whole or in part, with grant funds under this section, shall—~~

~~(1) be developed in collaboration with the Governor, representative of the State legislature, State school boards, other appropriate State agencies, and noncommercial telecommunication entities through a representational process involving input from communities throughout the State;~~

~~(2) identify requirements for infusing modern technologies into the classroom to enhance educational curricula;~~

~~(3) describe how the application of telecommunications, computer networks, and related advanced technologies in the schools will enhance the curriculum, provide greater access and equity for more students, and help achieve the National Education Goals;~~

~~(4) provide for the ongoing training of educational personnel to integrate educational technologies in the classroom and other applications of technology in education;~~

~~(5) establish a mechanism for statewide dissemination of exemplary programs and practices;~~

~~(6) include an estimate of the funding and resources needed to develop and maintain the requisite educational technology infrastructure identified in the plan, including the appropriate use of other Federal education funds available to the State or local educational agency;~~

~~(7) establish a schedule for the development and implementation of the planned educational technology infrastructure;~~

~~(8) develop a plan for the coordination and distribution of grants under this section, section 204, and section 405B(b)(1)(B) of the General Education Provisions Act;~~

~~(9) describe how the State educational agency will utilize the services and resources of the regional educational technology assistance consortia;~~

~~(10) distribute guidelines to all elementary and secondary schools and educational agencies in the~~

~~State related to the various programs and initiatives assisted under this Act;~~

~~(11) describe how the State will assess the level of—~~

~~(A) the statewide implementation of such plan;~~

~~(B) the increased access by the elementary and secondary schools to technology-enhanced resources assisted under this section; and~~

~~(C) the impact of such plan on school achievement;~~

~~(12) describe how State and local educational agencies will coordinate and cooperate with business and industry, as well as noncommercial telecommunications entities to implement standards to meet work force training needs;~~

~~(13) describe how the State educational agency will promote the purchase of equipment by local school districts and schools that, when placed in operation, will meet the highest level of interoperability and open system design among—~~

~~(A) technology hardware and software, either when used on a stand-alone basis or when connected together within a local area network or a wide area network; and~~

~~(B) schools within the State;~~

~~(14) will utilize existing telecommunications infrastructure and technology resources; and~~

~~(15) create a planning process through which such plan is reviewed and updated periodically.~~

~~(d) AMOUNT OF GRANTS.—~~

~~(1) IN GENERAL.—Except as provided in paragraph (2), the Assistant Secretary shall award grants under this section to each State, in each fiscal year, in an amount which bears the same relationship to the amount appropriated pursuant to the authority of subsection (c) as the amount such State received under chapter 1 of title I of the Elementary and Secondary Education Act of 1965 in such year bears to the amount received under such chapter by all States in such year.~~

~~(2) MINIMUM.—No State shall receive a grant under subsection (b) in an amount which is less than $100,000.~~

~~(3) STATE MATCHING.—~~

~~(A) STATE.—Each State receiving a grant under this section shall provide matching funds in an amount equal to 20 percent of such grant funds.~~

(B) WAIVER.—The Secretary may waive the State matching requirement described in subparagraph (A) for good cause, as determined by the Secretary.

(c) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $10,000,000 for the fiscal year 1994, and such sums as may be necessary for each of the 4 succeeding fiscal years, to carry out this section.

SEC. 203. ELEMENTARY AND SECONDARY SCHOOL LIBRARY AND MEDIA SERVICES.

Title IV of the General Education Provisions Act (20 U.S.C. 1221 et seq.) is further amended by adding after section 405A (as added by section 101(b)) the following new section:

"SEC. 405B. ELEMENTARY AND SECONDARY SCHOOL LIBRARY AND MEDIA SERVICES.

''(a) ESTABLISHMENT.—The Assistant Secretary shall establish a Division of Elementary and Secondary School Library Media Services (hereafter in this section referred to as the 'Division') within the Office of Educational Technology within 90 days of enactment of the Technology for Education Act of 1993. Such division shall consist of a Director, who shall have primary responsibility for the daily operation of the Division, and of such staff

~~as may be needed to carry out the functions described in subsection (b).~~

~~"(b) FUNCTIONS.—~~

~~"(1) IN GENERAL.—The Division shall—~~

~~"(A) provide information and leadership to elementary and secondary school library media specialists, teachers, and school administrators with respect to—~~

~~"(i) the effective operation of library media resources;~~

~~"(ii) methods of improving educational programs;~~

~~"(iii) training of library media personnel; and~~

~~"(iv) the development of library media resources, including resources that will encourage students to acquire skills in other languages; and~~

~~"(B) develop, implement and administer grant programs, on a competitive basis, for—~~

~~"(i) elementary and secondary school library media center resource development, including projects that—~~

~~"(I) enable school library media centers to acquire technologically ad-~~

~~vanced information management resources;~~

~~"(II) provide increased student access to library media center resources through the use of modern information resource technologies; and~~

~~"(III) assist in the implementation of distance learning via satellite, microwave, fiber, picture telephones and other visual media;~~

~~"(ii) elementary and secondary school library media specialist and teacher partnership for innovative education projects that—~~

~~"(I) encourage collaboration between elementary and secondary school library media specialists and teachers in order to develop units of instruction that enable students to use a variety of technologically advanced information resources; and~~

~~"(II) expand students' information-gathering abilities and cognitive skills of selection, analysis, evaluation, and application; and~~

~~"(iii) technology in the classroom projects that are linked to a library media center in order to—~~

~~"(I) expand the use of computers and computer networks in the curriculum;~~

~~"(II) enable elementary and secondary school library media centers to access information from computerized databases and other technologically advanced methods of access to information; and~~

~~"(III) assist in the implementation of distance learning via satellite, microwave, fiber, picture telephones and other visual media.~~

~~"(2) SPECIAL RULE.—In awarding grants under paragraph (1)(B) the Assistant Secretary shall—~~

~~"(A) award grants to schools with the greatest need for library materials and services; and~~

~~"(B) ensure that such grants are awarded on an equitable geographic basis.~~

1 ~~''(c) COOPERATIVE AGREEMENTS.—The Director of~~
2 ~~the Division is authorized to enter into such cooperative~~
3 ~~agreements with the Department of Education, the Na-~~
4 ~~tional Science Foundation, other Federal departments or~~
5 ~~agencies, noncommercial telecommunications entities, or~~
6 ~~nonprofit organizations, as the Director determines is nec-~~
7 ~~essary to carry out the provisions of this section.~~
8 ~~''(d) CONSTRUCTION.—Nothing in this section shall~~
9 ~~be construed to interfere with State and local initiative~~
10 ~~and responsibility in the conduct and support of school~~
11 ~~library media services, the administration of school library~~
12 ~~media centers, or the selection of personnel or library~~
13 ~~books and resources.~~
14 ~~''(e) SUPPLEMENTATION.—Funds provided under~~
15 ~~this section shall be used so as to supplement and not to~~
16 ~~supplant other Federal, State, or local funds available to~~
17 ~~carry out the activities and services assisted under this~~
18 ~~section, including funds made available to elementary and~~
19 ~~secondary school library media centers under the Tech-~~
20 ~~nology for Education Act of 1993.~~
21 ~~''(f) AUTHORIZATION OF APPROPRIATIONS.—There~~
22 ~~are authorized to be appropriated $45,000,000 for fiscal~~
23 ~~year 1994, and such sums as may be necessary in each~~
24 ~~succeeding fiscal year, to carry out this section, of which—~~

~~"(1) $15,000,000 shall be available in each such fiscal year to carry out subsection (b)(2)(A);~~

~~"(2) $15,000,000 shall be available in each such fiscal year to carry out subsection (b)(2)(B); and~~

~~"(3) $15,000,000 shall be available in each such fiscal year to carry out subsection (b)(2)(C).".~~

~~SEC. 204. SCHOOL TECHNOLOGY RESOURCE GRANTS AND LOANS.~~

~~(a) IN GENERAL.—~~

~~(1) IN GENERAL.—The Assistant Secretary shall award grants to State educational agencies having a plan approved under section 202 in order to enable such agencies to provide assistance to local educational agencies and schools having highest percentages of children in poverty and showing the greatest need for technology to enable such local educational agencies and schools to purchase quality technology related equipment, technology-enhanced curriculum, instruction, and administrative support resources and services that improve the instructional programs in schools.~~

~~(2) AMOUNT.—(A) Except as provided in subparagraph (B), the Secretary shall award grants under this section to each State educational agency~~

~~in an amount which bears the same relationship to the amount appropriated pursuant to the authority of subsection (b) as the amount such State received under chapter 1 of title I of the Elementary and Secondary Education Act of 1965 bears to the amount received under such chapter by all States.~~

~~(B) No State educational agency shall receive a grant pursuant to subparagraph (A) in an amount which is less than $100,000.~~

~~(3) LIMITATION ON STATE COSTS.—Not more than 5 percent of grant funds awarded to a State educational agency under this section may be used by the State or State educational agency for administrative costs or technical assistance.~~

~~(b) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $100,000,000 for fiscal year 1994, and such sums as may be necessary in each succeeding fiscal year, to carry out this section.~~

~~(c) LOCAL USES OF GRANT FUNDS.—Each local educational agency or school receiving assistance under this section may use such assistance—~~

~~(1) to acquire technology-enhanced education resources and services, such as computer hardware, software, and telecommunications services, for use by teachers and students in the classroom in order~~

~~to support the instructional program offered by schools to assure that students in such schools will have meaningful access on a regular basis to such resources and services;~~

~~(2) for staff development in the integration of quality instructional educational technologies into school curriculum and long-term planning for implementing educational technologies;~~

~~(3) to acquire connectivity with wide area networks, such as the INTERNET, for purposes of accessing information and educational programming sources outside the local educational agency or school;~~

~~(4) for necessary site preparation for the installation of technology-enhanced curriculum, instruction, and administrative support resources and services, except that such acquisitions may not exceed 25 percent of the amount of the assistance provided under this section;~~

~~(5) for ongoing technology training and staff development services, resources, or programs that instruct teachers and administrators in the effective integration of technology in the classroom through ongoing, onsite consultation; and~~

~~(6) to establish partnerships consisting of a representative of a local educational agency, a college or university, and any other agency the Assistant Secretary deems appropriate, for development and implementation of preservice education programs to train teachers in the application of instructional-based technologies in the curriculum.~~

~~(d) SCHOOL PLANS.—Each local educational agency or school desiring assistance under this section shall submit a plan to the State educational agency at such time and in such manner as such agency may prescribe. Such plan shall—~~

~~(1) include a strategic, long-range (3- to 5-year), outcome-based plan that includes—~~

~~(A) a process for the ongoing evaluation of how technologies acquired under this section—~~

~~(i) are being implemented into the school curriculum; and~~

~~(ii) are impacting student achievement; and~~

~~(B) a description of how the local educational agency or school has involved parents, business leaders and community leaders in the development of such plan;~~

~~(2) describe how the assistance will be used to further access for both teachers and students to best teaching practices and best curriculum resources that are aligned with any national educational standards that may be developed;~~

~~(3) describe the type of technologies to be acquired, including specific provisions for interoperability among components of such technologies;~~

~~(4) include the projected cost of technologies to be acquired and related expenses needed to implement the plan;~~

~~(5) include the projected timetable for implementing the technologies in schools;~~

~~(6) include an explanation of how the acquired technologies will be integrated into the curriculum to help the local educational agency or school enhance teaching, training, and student achievement;~~

~~(7) describe how the acquired instructionally based technologies will help the local educational agency or school achieve equity in curricular offerings;~~

~~(8) describe the supporting resources such as services, software and print resources, which will be acquired to ensure successful and effective use of technologies acquired under this section;~~

~~(9) describe how the instructionally based technologies and resources will support any State and national content and teaching educational standards that may be developed;~~

~~(10) describe how the local educational agency or school will ensure ongoing, sustained staff development for teachers and administrators in the local educational agency or school regarding the use of technology in the classroom, and contain a list of the source or sources of ongoing training available to such teachers and administrators, such as State technology offices, intermediate educational support units, regional educational laboratories, or institutions of higher education;~~

~~(11) describe identifiable, measurable outcome-based levels of achievement in the implementation of the plan that can be used to determine progress and to support decisions to provide additional funds; and~~

~~(12) describe how the local educational agency or school will promote the sharing, distribution, and reuse of applications of educational technology that are determined by such agency to be effective in individual schools.~~

(e) TECHNOLOGY LOANS.—Subsection (a) of section 751 of the Higher Education Act of 1965 (20 U.S.C. 1132f(a)) is amended—

(1) in paragraph (2), by striking ''and'' after the semicolon;

(2) by redesignating paragraph (3) as paragraph (4);

(3) by adding after paragraph (2) the following new paragraph:

''(3) guarantee, insure or reinsure low-interest, long-term loans to State educational agencies and local educational agencies in order to enable such agencies to obtain resources for distance learning, computer networks and other technology-enhanced curriculum, instruction, and administrative support resources and services that are used in the education process; and''; and

(4) in paragraph (4) (as redesignated by paragraph (2)), by striking ''and (2)'' and inserting '', (2) and (3)''.

SEC. 205. INFORMATION DISSEMINATION.

The Assistant Secretary and National Commission on Technology in Education shall compile and disseminate information on various successful models of integrating technology into education to assist State or local edu-

~~cational agencies, and schools in the development of systemic reform initiatives.~~

~~TITLE III—INFORMATION DISSEMINATION, TECHNOLOGY TRAINING AND TECHNICAL ASSISTANCE~~

~~SEC. 301. STATEMENT OF PURPOSE.~~

~~It is the purpose of this title to ensure that schools have access to all the resources necessary for effectively utilizing technology in the classroom by—~~

~~(1) supporting identification and dissemination of information on effective educational programs, resources and services throughout the United States, and, more specifically, to promote information dissemination through electronic means; and~~

~~(2) developing a coordinated network of educational technology assistance and training providers, such as universities, regional technology centers, museums, science centers, laboratories supported by the Department of Energy, noncommercial telecommunications entities, other nonprofit organizations, and State and local educational agencies to ensure effective utilization of technology-enhanced curriculum, instruction and educational administrative support resources and services to improve the~~

~~instructional programs in schools consistent with efforts to achieve the National Education Goals and State academic standards.~~

~~SEC. 302. ELECTRONIC DISSEMINATION NETWORK.~~

~~The Assistant Secretary, in cooperation with the Federal Communications Commission, the National Science Foundation, the Department of Defense, or any other department or agency of Federal, State and local governments that the Assistant Secretary deems appropriate, shall establish an electronic network for the dissemination of educational information throughout the United States, including information about effective technology-enhanced programs, resources, and services to the extent reasonably possible, the electronic dissemination network should make use of existing networks and networks to be built for other purposes. The electronic dissemination network shall—~~

~~(1) provide sufficient staffing and other resources as may be necessary to ensure the effective operation of the Electronic Dissemination Network; and~~

~~(2) consult with educators, State and local educational agencies, telecommunications providers, and other stakeholders in the education process throughout the United States to determine information re-~~

quirements and policies for the effective operation of the Electronic Dissemination Network.

SEC. 303. REGIONAL IMPLEMENTATION AND ASSISTANCE.

(a) PURPOSE.—It is the purpose of this section to establish regional educational technology assistance consortia to facilitate information dissemination, planning, resource development, implementation, and evaluation of educational technology applications by States, regional educational organizations, local educational agencies and schools.

(b) GRANTS AUTHORIZED.—

(1) AUTHORITY.—The Assistant Secretary shall make grants, on a competitive basis, to regional educational technology assistance consortia in accordance with the provisions of this section.

(2) REQUIREMENTS.—Each consortium receiving a grant under this section shall—

(A) serve 1 of the 10 regions of the United States served by a regional educational laboratory supported pursuant to section 405(d)(4)(A)(i) of the General Education Provisions Act;

(B) consist of a consortium of State educational agencies, nonprofit organizations, or a combination thereof; and

~~(C) in cooperation with State and local education programs, develop a regional plan that addresses staff development, technical assistance, information resource dissemination, and program evaluation and reporting needs of the region regarding educational technology.~~

~~(3) SPECIAL RULE.—Each consortium receiving a grant under this section shall use not less than 80 percent of the grant funds to carry out paragraph (3) of subsection (c).~~

~~(c) FUNCTIONS.—~~

~~(1) TECHNICAL ASSISTANCE.—Each consortium receiving a grant under this section shall—~~

~~(A) collaborate with State and local education programs in the development of State technology plans and in particular in the development of strategies for reaching those schools with highest percentages of disadvantaged students with little or no access to technology in the classroom;~~

~~(B) provide information to States, local educational agencies, and schools on the types and features of various educational technology equipment and software available, evaluate and make recommendations on equipment and soft-~~

~~ware that is suited for a program's particular needs, and compile and share information on creative applications of technology in the classroom;~~

~~(C) collaborate with State educational agencies, local educational agencies, or schools in the tailoring of software programs and other supporting materials to meet State curriculum standards and individual needs of schools and students; and~~

~~(D) provide technical assistance to facilitate use of the electronic dissemination network by State and local educational agencies and schools throughout the region;~~

~~(2) INFORMATION RESOURCE MANAGEMENT.—Each consortium receiving a grant under this section shall—~~

~~(A) assist the Office in the collection and access of information resources produced by the National Clearinghouse for Mathematics and Science Education, the regional mathematics and science consortia, the National Diffusion Network, and other educational organizations that the Assistant Secretary deems appropriate;~~

~~(B) assist in the review and documentation of effective educational programs, resources, and services created or utilized within the region;~~

~~(C) facilitate coordination and implementation of an electronic dissemination network and the distance learning described in section 907(a)(4)(B)(ii) of the Star Schools Program Assistance Act;~~

~~(D) assist the Office in designing and implementing an interactive telecommunications network to link educational agencies within and among consortia for the purpose of transferring educational information resources, including resources that utilize voice, video, data, and resources that are transmitted over satellite, microwave, cable, fiber, and other means; and~~

~~(E) establish a coordinated system of distance education involving microwave technology combined with other technology, as appropriate, that can serve to disseminate information and provide interactive staff development related to new research findings, national educational initiatives, funding and program resources, and~~

~~educational technology developments and resources appropriate to teaching and learning.~~

~~(3) STAFF DEVELOPMENT.—Each consortium receiving a grant under this section shall—~~

~~(A) develop and implement, in collaboration with State educational agencies, training and technology assistance training that can be offered through site-based intensive summer and school year workshops that utilize the teachers-training-teachers model or accessed through existing and emerging distance educational resources, including—~~

~~(i) interactive satellite training telecourses using researchers, educators, and telecommunications personnel who have experience in developing, implementing, or operating educational and instructional technology as a learning tool;~~

~~(ii) onsite courses teaching teachers to use educational and instructional technology and to develop their own instructional materials for effectively incorporating technology and programming in their own classrooms;~~

~~(iii) methods for successful integration of instructional technology into the curriculum; and~~

~~(iv) video conferences and seminars which offer professional development through peer interaction with experts as well as other teachers using technologies in their classrooms;~~

~~(B) develop training resources that are—~~

~~(i) relevant to the needs of the region and schools within the region; and~~

~~(ii) aligned with the needs of educators and administrators in the region, including educators and administrators from public and private schools;~~

~~(C) establish a repository of staff development and technical assistance resources;~~

~~(D) work with existing agencies in the region to identify and link technical assistance providers to educational agencies, as needed;~~

~~(E) provide followup to ensure that training, staff development, and technical assistance meets the needs of educators served by the region; and~~

~~(F) assist colleges and universities within the region to develop and apply for funding to implement preservice training programs for students enrolled in teacher education programs.~~

~~(3) RESOURCE DEVELOPMENT.—Each consortium receiving a grant under this section shall—~~

~~(A) assist educational agencies in the identification and procurement of financial, technological and human resources needed to implement technology plans;~~

~~(B) work with the local educational agencies to assist in the development and validation of instructionally based technology education resources;~~

~~(C) identify and provide or broker, as appropriate, human and technical resources to assist schools in the application of the resources assisted under this section; and~~

~~(D) coordinate activities and establish partnerships with national and State nonprofit professional educational organizations that represent the interests of the region as such interests pertain to the application of technology in teaching, learning, instructional management, dissemination, collection and distribution of~~

educational statistics, and the transfer of student information.

SEC. 304. AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated $41,000,000 for the fiscal year 1994, and such sums as may be necessary for each of the 4 succeeding fiscal years, to carry out this title, of which—

(1) $5,000,000 shall be available for the electronic dissemination network described in section 302; and

(2) $50,000,000 shall be available to support the regional educational technology assistance consortia described in section 303.

TITLE IV—EDUCATIONAL TECHNOLOGY PRODUCT DEVELOPMENT, PRODUCTION, AND DISTRIBUTION

SEC. 401. STATEMENT OF PURPOSE.

It is the purpose of this title to support development, production, and distribution of technology-enhanced curriculum, and instruction and administrative support resources and services, by—

(1) establishing as a priority for federally supported education technology programs the development (as opposed to research) of such programs;

~~(2) authorizing the Assistant Secretary to support the development, production and distribution of technology-enhanced instructional resources and services under this title;~~

~~(3) providing Federal funding for the joint development, production, and distribution of resources and services by consortia of businesses and educational institutions; and~~

~~(4) providing direction for the development of the Ready To Learn Act and the Star Schools Program Assistance Act.~~

~~SEC. 402. PRIORITY IN FEDERALLY SUPPORTED EDUCATION PROGRAMS.~~

~~Notwithstanding any other provision of law, in awarding funds pursuant to any competitively awarded Federal education program administered by the Secretary, the Secretary shall ensure that a high priority is placed on funding projects that utilize technology-enhanced curriculum, instruction and administrative support resources and services.~~

~~SEC. 403. CLASSROOMS FOR THE FUTURE.~~

~~(a) SHORT TITLE.—This section may be cited as the ''Technology for the Classroom Act of 1993''.~~

~~(b) PURPOSE.—It is the purpose of this section to establish a program to develop and expand the use of high~~

~~quality computer curriculum-based learning resources using state-of-the-art technologies and techniques which are or can be designed to increase the achievement levels of students in subject areas including mathematics, science, geography, history and language arts.~~

~~(c) ACHIEVEMENT GRANTS.—~~

~~(1) COMPETITIVE GRANTS.—~~

~~(A) IN GENERAL.—The Assistant Secretary shall award grants, on a competitive basis, to eligible consortia to enable such eligible consortia to develop computer-based instructional programs or technology-enhanced systems for complete courses or units of study for a specific subject and grade level, if such programs or systems are commercially unavailable in the local area served by such eligible consortia.~~

~~(B) ELIGIBLE CONSORTIUM.—For the purpose of this subsection the term ''eligible consortium'' means a consortium—~~

~~(i) that shall include—~~

~~(I) a State or local educational agency; and~~

~~(II) a business or industry; and~~

~~(ii) that may include—~~

~~(I) a public or private nonprofit organization; or~~

~~(II) a postsecondary institution.~~

~~(2) PRIORITY.—In awarding grants under this subsection, the Assistant Secretary shall give priority to applications describing programs or systems that are developed—~~

~~(A) so that the program or system may be adapted and applied nationally at a reasonable cost;~~

~~(B) to raise the achievement levels of students, particularly disadvantaged students who are not realizing their potential; and~~

~~(C) in consultation with classroom teachers.~~

~~(3) DURATION AND AMOUNT.—Each grant made under this subsection shall be awarded for a period not to exceed 3 years and in an amount not to exceed $3,000,000.~~

~~(4) MATCHING REQUIREMENT.—The Assistant Secretary shall not make a grant to an eligible consortium under paragraph (1) unless the eligible consortium agrees that, with respect to the costs to be incurred by the eligible consortium in carrying out the program or system for which the grant was~~

~~awarded, the eligible consortium will make available non-Federal contributions in an amount equal to not less than 25 percent of the Federal funds provided under the grant.~~

~~(5) APPLICATION.—~~

~~(A) IN GENERAL.—Each eligible consortium desiring a grant under this subsection shall submit an application to the Assistant Secretary at such time, in such manner, and accompanied by such information as the Assistant Secretary may prescribe.~~

~~(B) CONTENTS.—Each application submitted pursuant to paragraph (1) shall include—~~

~~(i) a description of how the program or system shall improve the achievement levels of students;~~

~~(ii) a description of how teachers associated with the program or system will be trained to integrate technology into the classroom;~~

~~(iii) an assurance that the program or system shall effectively serve a large number or percentage of economically disadvantaged students; and~~

~~(iv) plans for dissemination to a wide audience of learners.~~

~~(6) CRITERIA FOR AWARDING GRANTS. In awarding a grant under this subsection to develop a program or system, the Assistant Secretary shall consider the appropriateness and quality of the following elements of the program or system:~~

~~(A) Identification of specific learning objectives and strategies of the proposed course or unit of study, that take into consideration any national education standards that may be developed for various disciplines.~~

~~(B) Incorporation in creative ways of a variety of technology-enhanced learning resources, such as computer software, databases, films, transparencies, video and audio discs, telecommunications (including educational radio and television), with print resources.~~

~~(C) Design that allows tailoring of the program or system to meet individual needs of students, particularly students at greatest risk of not reaching their educational potential.~~

~~(D) Flexibility of use by teachers or local schools.~~

~~(E) Methods for updating or revising information and resources.~~

~~(F) Programs or resources to train and guide teachers.~~

~~(G) Coordination with teacher training programs.~~

~~(H) Explanatory resources for students and parents.~~

~~(I) Field testing and evaluation in terms of stated learning objectives.~~

~~(J) Plans for pricing technology-enhanced resources that are affordable for schools and agencies.~~

~~(K) Plans for distribution that ensure access for the poorest schools and school districts.~~

~~(L) Demonstration of cost-effectiveness in relation to existing programs and to achieving stated learning objectives.~~

~~(d) FEDERAL INTERAGENCY COORDINATION.—The Assistant Secretary shall coordinate and share information regarding curriculum-based educational technology programs assisted under this section with other Federal agencies which administer programs that support the development of such programs, including the National Science Foundation, the Department of Defense, the Of-~~

~~fice of Technology Assessment, the Corporation for Public Broadcasting, the Department of Energy, and the Department of Agriculture.~~

~~(e) CONSUMER REPORT.—The Assistant Secretary shall collect information about products developed pursuant to provisions of this section and the evaluation of such products, and shall disseminate such information in regular reports to State and local educational agencies, and other organizations or individuals that the Assistant Secretary determines to be appropriate.~~

~~(f) ROYALTIES.—Notwithstanding any other provision of law, any royalties paid to any State or local educational agency as a result of assistance provided under this section shall be used by such agency for further development of curriculum-based learning resources authorized by this section.~~

~~(g) CLOSED CAPTIONING.—Each eligible consortium receiving a grant under this section shall provide closed captioning, where appropriate.~~

~~(h) AUTHORIZATION OF FUNDS.—For the purpose of carrying out this section, there are authorized to be appropriated $45,000,000 for the fiscal year 1994 and such sums as may be necessary for each of the 4 succeeding fiscal years.~~

~~SEC. 404. INSTRUCTIONAL BROADCASTING AND VIDEO INSTRUCTIONAL PROGRAMMING.~~

~~(a) STATEMENT OF PURPOSE.—It is the purpose of this section to support the development of long-term comprehensive instructional programming and associated support resources for elementary and secondary grade core curricula outlined in the National Education Goals so that such resources are distributed electronically to the broadest possible segments of education in the United States and are stored in archival formats that assure maximum access by all educational institutions.~~

~~(b) PROGRAM AUTHORIZED.—~~

~~(1) IN GENERAL.—(A) The Assistant Secretary is authorized to award grants to or enter into contracts or cooperative agreements with eligible educational telecommunications partnerships to pay the Federal share of the cost of the research, production, and distribution of instructional programming for students, and staff development programming for teachers.~~

~~(B) For the purpose of this section the term ''programming'' means the full range of audio and video text and graphics used for education and instruction which can be distributed through interactive, command and control or passive methods.~~

~~(2) DURATION.—The Assistant Secretary shall award grants and enter into contracts or cooperative agreements pursuant to paragraph (1) for a period of not more than 5 years.~~

~~(3) LIMITATION.—An eligible educational telecommunications partnership may not receive assistance under this section unless such entity has certified that all educational programming prepared and distributed by such partnership, where appropriate, contains closed captioning of the verbal content of such program to be broadcast by way of line 21 of the vertical blanking interval, or by way of comparable successor technologies, unless the provision of closed captioned broadcasting would cause undue administrative or financial burden.~~

~~(4) RENEWALS.—Grants awarded and contracts or cooperative agreements entered into pursuant to paragraph (1) may be renewed to update and expand such resources.~~

~~(5) COLLABORATION.—Each eligible educational telecommunications partnership receiving assistance under this section shall collaborate and consult with appropriate education entities in designing the instructional components of programming to~~

~~ensure that such components are relevant to national and State curriculum frameworks.~~

~~(c) AUTHORIZATION OF APPROPRIATIONS.—~~

~~(1) IN GENERAL.—There are authorized to be appropriated $15,000,000 for fiscal year 1994, and such sums as may be necessary for each succeeding fiscal year, to carry out this section.~~

~~(2) AVAILABILITY.—Funds appropriated pursuant to the authority of paragraph (1) shall remain available until expended.~~

~~(d) FEDERAL SHARE.—The Federal share of a grant, contract or cooperative agreement under this section in any fiscal year shall not exceed 75 percent.~~

~~(e) COORDINATION.—The Department of Education, the National Science Foundation, the Department of Energy, the Department of Agriculture, the Department of Commerce, the Corporation for Public Broadcasting, the public broadcasting services, and any other Federal agency funding educational programming for children may coordinate with and jointly fund activities assisted under this section.~~

~~(f) ELIGIBLE EDUCATION TELECOMMUNICATIONS PARTNERSHIPS.—For the purpose of this section, the term ''eligible educational telecommunications partner-~~

~~ship'' means a partnership consisting of the following entities:~~

~~(1) A noncommercial telecommunications entity with a demonstrated record of the production of high quality educational video programming.~~

~~(2) A recognized organization knowledgeable about the requirements of implementing within or across a content area a curriculum compatible with proposed or established voluntary national content standards, such as an institution of higher education, national professional organizations, or a scientific laboratory.~~

~~(3) An instructional design institution that can integrate student and teacher print resources, related computer resources, interactive multimedia and programming series into a coordinated whole.~~

~~(4) A marketing entity capable of distributing all aspects of the products developed under this section.~~

~~(g) APPLICATIONS.—~~

~~(1) APPLICATION REQUIRED.—Each eligible educational telecommunications partnership which desires to receive a grant or enter into a contract or cooperative agreement under this section shall submit an application to the Assistant Secretary, at~~

~~such time, in such manner, and containing or accompanied by such information as the Assistant Secretary may reasonably require.~~

~~(2) CONTENTS OF THE APPLICATION.—Each application submitted under paragraph (1) shall—~~

~~(A) describe the programming and such programming's relevance to the core curricula outlined in the National Education Goals;~~

~~(B) describe the professional capabilities for which assistance is sought, including—~~

~~(i) the research, design, piloting, production, field testing, and distribution of the products developed under this section; and~~

~~(ii) the technical facilities available for developing the programming; and~~

~~(C) describe the piloting, teacher training and testing of the programming, print, computer, television, radio and interactive media products.~~

~~(h) PROGRAMS RELATED OPERATING FUNDS FOR INSTRUCTIONAL TEACHER TRAINING (PROFIT).—The Assistant Secretary shall allow the eligible educational telecommunications partnership to receive a financial benefit from the distribution of programming assisted under this~~

~~section. Such benefit shall be used by the eligible educational telecommunications partnership to support more development of curriculum specific programming and to provide greater access to a wider audience of educational programming.~~

~~SEC. 405. STAR SCHOOLS PROGRAM.~~

~~The Star Schools Program Assistance Act (20 U.S.C. 4081 et seq.) is amended to read as follows:~~

~~"SEC. 901. PURPOSE.~~

~~''It is the purpose of this title to encourage improved instruction in mathematics, science, and foreign languages as well as other subjects, such as literacy skills and vocational education, and to serve underserved populations, including the disadvantaged, illiterate, limited-English proficient, and disabled, through a star schools program under which grants are made to eligible telecommunication partnerships to enable such partnerships to—~~

~~''(1) develop, construct, acquire, maintain and operate telecommunications audio and visual facilities and equipment;~~

~~''(2) develop and acquire educational and instructional programming; and~~

~~''(3) obtain technical assistance for the use of such facilities and instructional programming.~~

~~"SEC. 902. GRANTS AUTHORIZED.~~

~~"(a) IN GENERAL.—The Assistant Secretary is authorized, in accordance with the provisions of this title, to make grants to eligible telecommunications partnerships to pay the Federal share of the cost of—~~

~~"(1) the development, construction, acquisition, maintenance and operation of telecommunications facilities and equipment;~~

~~"(2) the development and acquisition of live, interactive instructional programming;~~

~~"(3) the development and acquisition of preservice and inservice teacher training programs based on established research regarding teacher-to-teacher mentoring, effective skill transfer, and ongoing, in-class instruction;~~

~~"(4) the establishment of teleconferencing facilities and resources for broadcasting interactive training to teachers;~~

~~"(5) obtaining technical assistance; and~~

~~"(6) the coordination of the design and connectivity of telecommunications networks to reach greater numbers of schools.~~

~~"(b) DURATION.—~~

~~"(1) IN GENERAL.—The Assistant Secretary shall award grants pursuant to subsection (a) for a period of 5 years.~~

~~"(2) RENEWAL.—Grants awarded pursuant to subsection (a) may be renewed for 1 additional 5-year period.~~

~~"(c) AUTHORIZATION OF APPROPRIATIONS.—~~

~~"(1) IN GENERAL.—There are authorized to be appropriated $35,000,000 for fiscal year 1994 and such sums as may be necessary for each succeeding fiscal year, to carry out this title.~~

~~"(2) AVAILABILITY.—Funds appropriated pursuant to the authority of subsection (a) shall remain available until expended.~~

~~"(d) LIMITATIONS.—~~

~~"(1) AMOUNT.—A grant made to an eligible telecommunications partnership under this title shall not exceed $4,000,000 in any 1 fiscal year.~~

~~"(2) RESERVATIONS.—~~

~~"(A) FACILITIES AND EQUIPMENT.—Not less than 25 percent of the funds available to the Assistant Secretary in any fiscal year under this title shall be used for telecommunications facilities and equipment.~~

~~"(B) CERTAIN LOCAL EDUCATIONAL AGENCIES.—Not less that 25 percent of the funds available to the Assistant Secretary in any fiscal year under this title shall be used for the~~

~~cost of facilities, equipment, teacher training or retaining, technical assistance, or programming, for local educational agencies which are eligible to receive assistance under chapter 1 of title I of the Elementary and Secondary Education Act of 1965.~~

~~''(e) FEDERAL SHARE.—~~

~~''(1) IN GENERAL.—The Federal share for any fiscal year shall be not more than 75 percent.~~

~~''(2) WAIVER.—The Assistant Secretary may reduce or waive the requirements of the non-Federal share required under subparagraph (A) for good cause, as determined by the Assistant Secretary.~~

~~''(f) COORDINATION.—The Department of Education, the National Science Foundation, the Department of Agriculture, and any other Federal department or agency operating a telecommunications network for educational purposes, shall coordinate the activities assisted under this title with the activities of such department or agency relating to a telecommunications network for educational purposes.~~

~~''(g) CLOSED CAPTIONING.—Each entity receiving funds under this title are encouraged to provide closed captioning of the verbal content of such program, where appropriate, to be broadcast by way of line 21 of the verti-~~

cal blanking interval, or by way of comparable successor technologies.

"SEC. 903. ELIGIBLE TELECOMMUNICATIONS PARTNERSHIPS.

"(a) IN GENERAL.—In order to be eligible for a grant under this title, an eligible telecommunications partnership shall consist of—

"(1) a public agency or corporation established for the purposes of developing and operating telecommunications networks to enhance educational opportunities provided by educational institutions, teacher training centers, and other entities, except that any such agency or corporation shall represent the interest of elementary and secondary schools which are eligible for assistance under chapter 1 of title I of the Elementary and Secondary Education Act of 1965; or

"(2) a partnership that will provide a telecommunications network and which includes 3 or more of the following entities, at least 1 of which shall be an agency described in subparagraph (A) or (B):

"(A) a local educational agency serving a significant number of elementary and secondary schools that are eligible for assistance under

~~chapter 1 of title 1 of the Elementary and Secondary Education Act of 1965 or elementary and secondary schools operated for Indian children by the Department of Interior under section 1005(d) of such Act;~~

~~''(B) a State educational agency;~~

~~''(C) an institution of higher education or a State higher education agency;~~

~~''(D) a teacher training center or academy which—~~

~~''(i) provides teacher preservice and inservice training; and~~

~~''(ii) receives Federal financial assistance or has been approved by a State agency; or~~

~~''(E)(i) a public or private entity with experience and expertise in the planning and operation of a telecommunications network, including entities involved in telecommunications through satellite, cable, telephone or computers; or~~

~~''(ii) a public broadcasting entity with such experience.~~

~~''(b) SPECIAL RULE.—An eligible telecommunications partnership shall be organized on a statewide or multistate basis.~~

~~''SEC. 904. APPLICATIONS.~~

~~''(a) APPLICATIONS REQUIRED.—~~

~~''(1) IN GENERAL.—Each eligible telecommunications partnership which desires to receive a grant under section 902 shall submit an application to the Assistant Secretary, at such time, in such manner, and containing or accompanied by such information as the Assistant Secretary may reasonably require.~~

~~''(2) SPECIAL RULE.—The Assistant Secretary shall permit applicants for assistance under this Act and applicants for assistance under any other Federal program providing educational technology in the classroom to submit a single application for assistance.~~

~~''(b) CONTENTS OF THE APPLICATION.—Each application submitted pursuant to subsection (a) shall—~~

~~''(1) describe the telecommunications facilities and equipment and technical assistance for which assistance is sought, which may include—~~

~~''(A) the design, development, construction, acquisition, maintenance and operation of State~~

~~or multistate educational telecommunications networks and technology resource centers;~~

~~''(B) microwave, fiber optics, cable, and satellite transmission equipment or any combination thereof;~~

~~''(C) reception facilities;~~

~~''(D) satellite time;~~

~~''(E) production facilities;~~

~~''(F) other telecommunications equipment capable of serving a wide geographic area;~~

~~''(G) the provision of training services to instructors who will be using the facilities and equipment for which assistance is sought, including training in using such facilities and equipment and training in integrating programs into the classroom curriculum; and~~

~~''(H) the development of educational programming for use on a telecommunications network;~~

~~''(2) in the case of an application for assistance for instructional programming, describe the types of programming which will be developed to enhance instruction and training and provide assurances that such programming will be designed in consultation~~

~~with professionals who are experts in the applicable subject matter and grade level;~~

~~"(3) demonstrate that the eligible telecommunications partnership has engaged in sufficient survey and analysis of the area to be served to ensure that the services offered by the eligible telecommunications partnership will increase the availability of courses of instruction in mathematics, science, and foreign languages, as well as other subjects to be offered;~~

~~"(4) describe the training policies for teachers and other school personnel to be implemented to ensure the effective use of telecommunications facilities and equipment for which assistance is sought;~~

~~"(5) provide assurances that the financial interest of the United States in the telecommunications facilities and equipment will be protected for the useful life of such facilities and equipment;~~

~~"(6) provide assurances that a significant portion of any facilities and equipment, technical assistance, and programming for which assistance is sought for elementary and secondary schools will be made available to schools of local educational agencies which have a high percentage of children eligible~~

~~to be counted under chapter 1 of title I of the Elementary and Secondary Education Act of 1965;~~

~~"(7) describe the manner in which traditionally underserved students, such as students who are disadvantaged, limited-English proficient, disabled, or illiterate will participate in the benefits of the telecommunications facilities, equipment, technical assistance, and programming assisted under this title;~~

~~"(8) provide assurances that the applicant will use the funds provided under this title to supplement and not supplant funds otherwise available for the purposes of this title;~~

~~"(9) if the applicant is submitting an application for assistance under title II of the Technology for Education Act of 1993, describe how funds received under this title will be coordinated with funds received for educational technology in the classroom under title II of such Act;~~

~~"(10) describe the activities or services for which assistance is sought, including activities and services such as—~~

~~"(A) providing facilities, equipment, training, services, and technical assistance described in paragraphs (1), (2), (4) and (7);~~

~~''(B) making programs accessible to individuals with disabilities through mechanisms such as closed captioning and descriptive video services;~~

~~''(C) linking networks together, for example, around an issue of national importance, such as national elections;~~

~~''(D) sharing curriculum resources between networks and development of program guides which demonstrate cooperative, cross-network listing of programs for specific curriculum areas;~~

~~''(E) providing teacher and student support services including classroom and training support materials which permit student and teacher involvement in the live interactive distance learning telecasts;~~

~~''(F) incorporating community resources, such as libraries and museums, into instructional programs;~~

~~''(G) providing teacher training to early childhood development and Head Start teachers and staff;~~

~~''(H) providing teacher training to vocational education teachers and staff;~~

~~"(I) providing teacher training on proposed or established voluntary national content standards in mathematics and science and other disciplines as such standards are developed;~~

~~"(J) providing programs for adults at times other than the regular school day in order to maximize the use of telecommunications facilities and equipment; and~~

~~"(K) providing parent education programs during and after the regular school day which reinforce the student's course of study and actively involve parents in the learning process; and~~

~~"(11) include such additional assurances as the Secretary may reasonably require.~~

~~"(c) APPROVAL OF APPLICATION; PRIORITY.—The Assistant Secretary, in approving applications under this title, shall give priority to applications which demonstrate that—~~

~~"(1) a concentration and quality of mathematics, science, and foreign languages resources which, by their distribution through the eligible telecommunications partnership, will offer significant new educational opportunities to network participants, particularly to traditionally underserved popu-~~

~~lations and areas with scarce resources and limited access to courses in mathematics, science, and foreign languages;~~

~~''(2) the eligible telecommunications partnership has secured the direct cooperation and involvement of public and private educational institutions, State and local government, and industry in planning the network;~~

~~''(3) the eligible telecommunications partnership will serve the broadest range of institutions, including in the case of elementary and secondary schools, those elementary and secondary schools having a significant number of students eligible to be counted under chapter 1 of title I of the Elementary and Secondary Education Act of 1965, programs providing instruction outside of the school setting, institutions of higher education, teacher training centers, research institutes, and private industry;~~

~~''(4) a significant number of educational institutions have agreed to participate or will participate in the use of the telecommunications system for which assistance is sought;~~

~~''(5) the eligible telecommunications partnership will have substantial academic and teaching capabilities, including the capability of training, retraining,~~

~~and service upgrading of teaching skills and the capability to provide professional development leading to comprehensive effective instructional strategies, outcomes-based curriculum and parenting practices;~~

~~''(6) the eligible telecommunications partnership will—~~

~~''(A) provide a comprehensive range of courses for educators with different skill levels to teach instructional strategies for students with different skill levels;~~

~~''(B) provide training to participating educators in ways to integrate telecommunications courses into existing school curriculum; and~~

~~''(C) include instruction for students, teachers, and parents;~~

~~''(7) the eligible telecommunications partnership will serve a multistate area;~~

~~''(8) a telecommunications entity (such as a satellite, cable, telephone, computer, or public or private television stations) will participate in the partnership and will donate equipment or in kind services for telecommunications linkages; and~~

~~''(9) the eligible telecommunications partnership will, in providing services with assistance under this title, meet the needs of groups of individuals tradi-~~

~~tionally excluded from careers in mathematics and science because of discrimination, inaccessibility, or economically disadvantaged backgrounds.~~

~~''(d) GEOGRAPHIC DISTRIBUTION.—In approving applications under this title, the Assistant Secretary shall assure an equitable geographic distribution of grants under this title.~~

~~''SEC. 905. DISSEMINATION OF COURSES AND RESOURCES UNDER THE STAR SCHOOLS PROGRAM.~~

~~''(a) REPORT.—Each eligible telecommunications partnership awarded a grant under this title shall report to the Assistant Secretary a listing and description of available courses of instruction and resources to be offered by educational institutions and teacher training centers which will be transmitted over satellite, specifying the satellite on which such transmission will occur and the time of such transmission.~~

~~''(b) DISSEMINATION OF COURSES OF INSTRUCTION.—The Assistant Secretary shall compile and prepare for dissemination a listing and description of available courses of instruction and resources to be offered by educational institutions and teacher training centers equipped with satellite transmission capabilities as reported to the Assistant Secretary under subsection (a).~~

~~"(c) DISSEMINATION TO STATE EDUCATIONAL AGENCIES.—The Assistant Secretary shall distribute the list required by subsection (b) to all State educational agencies.~~

~~"SEC. 906. ADMINISTRATIVE PROVISIONS.~~

~~"(a) CONTINUING ELIGIBILITY.—~~

~~"(1) IN GENERAL.—In order to be eligible to receive a grant under this title in any fiscal year after the first fiscal year in which an eligible telecommunications partnership receives a grant under this title, such partnership shall demonstrate in the application submitted pursuant to section 904 that such partnership will—~~

~~"(A) continue to provide services in the subject areas and geographic areas assisted with funds received under this title in the previous fiscal year; and~~

~~"(B) use all such grant funds to provide expanded services by—~~

~~"(i) increasing the number of students, schools or school districts served by the courses of instruction assisted under this title in the previous fiscal year;~~

~~"(ii) providing new courses of instruction; and~~

~~"(iii) serving new populations of underserved individuals, such as children or adults who are disadvantaged, have limited-English proficiency, are disabled, are illiterate, or lack high school diplomas or their equivalent.~~

~~"(2) SPECIAL RULES.—Grant funds received pursuant to the application of paragraph (1) shall be used to supplement and not supplant services provided by the recipient under this title in the previous fiscal year.~~

~~"(b) EVALUATION.—~~

~~"(1) IN GENERAL.—From amounts appropriated pursuant to the authority of subsection (b), the Secretary shall reserve not more than $500,000 or 5 percent of such appropriations, whichever is less, to conduct an independent evaluation by grant, contract, or cooperative agreement, of the program assisted under this title.~~

~~"(2) SUBMISSION.—The evaluation required under paragraph (1) shall be submitted to the Congress and the Assistant Secretary not later than June 1, 1995.~~

~~"(3) CONTENTS.—The evaluation described in paragraph (1) shall include—~~

~~''(A) a review of the effectiveness of eligible telecommunications partnerships and programs assisted under this title after Federal funding under this title ceases;~~

~~''(B) an analysis of the effectiveness of non-Federal funds provided under this title, including funds leveraged under this title and the permanency of such funding;~~

~~''(C) an analysis of how grant recipients under this title spend funds appropriated to carry out this title;~~

~~''(D) a review of the subject matter and success of distance learning through programs assisted under this title;~~

~~''(E) a comprehensive review of inservice teacher training programs assisted under this title, including the number of teachers trained, time spent in training programs, and a comparison of the effectiveness of such training and conventional teacher training programs;~~

~~''(F) an analysis of programs assisted under this title that focus on teacher certification and other requirements and the resulting effect on the delivery of instructional programming;~~

~~"(G) the effects of distance learning on curriculum and staffing patterns at participating schools;~~

~~"(H) an analysis of the socioeconomic characteristics of students participating in programs assisted under this title, including a review of the differences and effectiveness of programming and services provided to economically disadvantaged and minority students;~~

~~"(I) an analysis of the socioeconomic and geographic characteristics of schools participating in programs assisted under this title, including a review of the variety of programming provided to different schools; and~~

~~"(J) the impact of dissemination grants under section 907(a) on the use of technology-enhanced programs in local educational agencies.~~

~~"(c) FEDERAL ACTIVITIES.—The Assistant Secretary may assist grant recipients under this title in acquiring satellite time, where appropriate, as economically as possible.~~

~~"SEC. 907. OTHER ASSISTANCE.~~

~~"(a) DISSEMINATION GRANTS.—~~

~~"(1) IN GENERAL.—The Assistant Secretary shall make grants under this subsection to eligible telecommunications partnerships assisted under this title and to eligible entities that enter into an agreement with the Assistant Secretary to provide dissemination and technical assistance to State and local educational agencies not served under this title.~~

~~"(2) DEFINITION.—For the purposes of this subsection, the term 'eligible entity' means an organization or institution of higher education that has demonstrated expertise in educational applications of technology and provides comprehensive technical assistance to educators and policymakers at the local level.~~

~~"(3) RESERVATION.—The Assistant Secretary shall reserve not less than 5 percent and not more than 10 percent of the amount appropriated pursuant to the authority of subsection (c) in each fiscal year to award grants under this subsection.~~

~~"(4) APPLICATIONS.—~~

~~"(A) IN GENERAL.—Each eligible telecommunications partnership and eligible entity that desires to receive a grant under this subsection shall submit an application to the Secretary, at such time, in such manner, and con-~~

taining or accompanied by such information, as the Assistant Secretary may reasonably require.

"(B) CONTENTS. Each applicant described in paragraph (2) shall contain assurances that the eligible telecommunications partnership or eligible entity shall provide technical assistance to State and local educational agencies in order to enable such agencies to plan and implement technology-enhanced systems, including—

"(i) information regarding successful distance learning resources for States, local educational agencies, and schools;

"(ii) assistance in connecting users of distance learning, regional educational services centers, colleges and universities, the private sector, and other relevant entities;

"(iii) assistance and advice in the design and implementation of systems, including needs assessment and technology design; and

"(iv) support for the identification of possible connections, and cost-sharing arrangements for users of such systems.

~~"(b) SPECIAL STATEWIDE NETWORK.—~~

~~"(1) IN GENERAL.—The Assistant Secretary may provide assistance to a statewide telecommunications network under this subsection if such network—~~

~~"(A) provides 2-way interactive video and audio communications;~~

~~"(B) links together public colleges and universities and secondary schools throughout the State; and~~

~~"(C) meets any other requirements determined appropriate by the Secretary.~~

~~"(2) STATE CONTRIBUTION.—A statewide telecommunications network assisted under paragraph (1) shall contribute, either directly or through private contributions, non-Federal funds equal to not less than 50 percent of the cost of such network.~~

~~"(c) SPECIAL LOCAL NETWORK.—~~

~~"(1) IN GENERAL.—The Assistant Secretary may provide assistance to a local educational agency or consortium thereof to enable such agency or consortium to establish a high technology demonstration program.~~

~~''(2) PROGRAM REQUIREMENTS.—A high technology demonstration program assisted under paragraph (1) shall—~~

~~''(A) include 2-way full motion interactive video, audio and text communications;~~

~~''(B) link together elementary and secondary schools, colleges, and universities;~~

~~''(C) provide parent participation and family programs;~~

~~''(D) include a staff development program; and~~

~~''(E) have a significant contribution and participation from business and industry.~~

~~''(3) SPECIAL RULE.—Each high technology demonstration program assisted under paragraph (1) shall be of sufficient size and scope to have an effect on meeting the National Education Goals.~~

~~''(4) MATCHING REQUIREMENT.—A local educational agency or consortium receiving a grant under paragraph (1) shall provide, either directly or through private contributions, non-Federal matching funds equal to not less than 50 percent of the amount of the grant.~~

~~''SEC. 908. DEFINITIONS.~~

~~''As used in this title—~~

~~"(1) the term 'educational institution' means an institution of higher education, a local educational agency, or a State educational agency;~~

~~"(2) the term 'institution of higher education' has the same meaning given that term by section 1201(a) of the Higher Education Act of 1965;~~

~~"(3) the term 'local educational agency' has the same meaning given that term by section 1471(12) of the Elementary and Secondary Education Act of 1965;~~

~~"(4) the term 'instructional programming' means courses of instruction, training courses, and resources used in such instruction and training, which have been prepared in audio and visual form on tape, disc, film, live, and presented by means of telecommunications devices;~~

~~"(5) the term 'public broadcasting entity' has the same meaning given that term by section 397 of the Communications Act of 1934;~~

~~"(6) the term 'Assistant Secretary' means the Assistant Secretary for Educational Technology;~~

~~"(7) the term 'State educational agency' has the same meaning given that term under section 1471(23) of the Elementary and Secondary Education Act of 1965; and~~

~~''(8) the term 'State' means each of the several States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the Virgin Islands, the Republic of the Marshall Islands, the Federated States of Micronesia, the Republic of Palau, and the Commonwealth of the Northern Mariana Islands.''.~~

~~TITLE V—EDUCATIONAL TECHNOLOGY RESEARCH, DEVELOPMENT AND ASSESSMENT~~

~~SEC. 501. PURPOSES.~~

~~It is the purpose of this title—~~

~~(1) to provide direction and support for the conduct of developmental research on advanced educational technologies;~~

~~(2) to support the design and development of educational access to high performance communications and computing services;~~

~~(3) to assess the effectiveness of technology in education programs; and~~

~~(4) to make an annual status report available to the public regarding the state-of-the-art uses of technology in United States education which private businesses and governments can rely upon for decisionmaking about the need for, and provision of, ap-~~

~~propriate technologies for education in the United States.~~

~~SEC. 502. APPLICATION OF ADVANCED TECHNOLOGIES TO EDUCATION.~~

~~(a) STATEMENT OF PURPOSE.—It is the purpose of this section to provide support for the design and development of long-term comprehensive educational applications of advanced high performance computer and communication technologies and video technologies in support of the core subjects of the National Education Goals. Such advanced technologies include systems identified as interactive multimedia, super computing, virtual reality, advanced digital television, telecomputing, and the networks associated with such systems, including video dial tone access.~~

~~(b) GENERAL AUTHORITY.—The Assistant Secretary, in cooperation with other Federal departments and agencies (including the Advanced Research Projects Agency (ARPA) of the Department of Defense, the Advanced Technology Program of the Department of Commerce, the National Science Foundation, all laboratories supported by the Department of Energy, the National Aeronautics and Space Administration, and the Department of Defense) is authorized to support research on advanced learning technologies.~~

~~(c) PRIORITIES.—In awarding assistance under this section, the Assistant Secretary shall give the highest priority to research projects which are intended to develop educational applications using advanced technologies which have been used effectively by the Federal Government, or business and industry.~~

~~(d) ELIGIBLE APPLICANTS.—Any single developer or partnership that can demonstrate both the technological expertise and educational content and instructional design expertise is eligible to apply for assistance under subsection (b).~~

~~(e) APPLICATION REQUIREMENTS.—Each eligible applicant desiring assistance under this section shall submit an application to the Assistant Secretary at such time, in such manner, and accompanied by such information, as the Assistant Secretary may reasonably require. Each such application shall—~~

~~(1) define clearly the scope and content of the subject matter of the research and the relevance of the advanced technology to such content;~~

~~(2) describe the potential market for both the hardware and software developed under this section;~~

~~(3) assess and test the applications of the advanced technology in a way that will validate the~~

~~technology and content usage by the proposed students;~~

~~(4) develop products that are usable by all students, including disabled, limited-English speaking, gifted and talented, and disadvantaged students; and~~

~~(5) develop a marketing plan for the transfer of prototype development into mass distribution or marketing that may be used in homes, schools, or workplaces.~~

~~(f) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $20,000,000 for fiscal year 1994, and such sums as may be necessary for each succeeding fiscal year, to carry out this section.~~

~~SEC. 503. HIGH PERFORMANCE EDUCATIONAL COMPUTING AND TELECOMMUNICATIONS NETWORKS.~~

~~(a) FINDINGS; STATEMENT OF PURPOSE.—~~

~~(1) FINDINGS.—The Congress finds that—~~

~~(A) throughout the United States various public and private sector groups are developing high performance computing and telecommunications networks;~~

~~(B) by the year 2000, such efforts should result in public access to a variety of information resources;~~

~~(C) there needs to be more direct coordination among such efforts and a more explicit consideration of the needs of education in the designs of such efforts; and~~

~~(D) support and resources are required to permit schools and libraries to take advantage of the explosive growth in communication capabilities and information access that technology provides.~~

~~(2) STATEMENT OF PURPOSE.—It is the purpose of this section to ensure that such high performance computing and telecommunications networks (often identified as ''information highways'') are developed with due consideration to the needs of elementary and secondary education and that such networks have explicit provisions which facilitate educational uses in order to ensure that the classrooms and libraries in the Nation's elementary and secondary schools have adequate access to the emerging ''information highways''.~~

~~(b) AUTHORITY.—The Assistant Secretary is authorized to—~~

~~(1) identify educational high performance computing and telecommunications network requirements;~~

~~(2) develop specifications for the implementation of such requirements within any national telecommunications network;~~

~~(3) establish prototype operations on existing networks to validate and further develop the educational specifications which will facilitate the use of such networks by kindergarten through twelfth grade students, teachers, administrators, and parents;~~

~~(4) represent the needs and interests of elementary and secondary schools in the Federal planning and development of a national information infrastructure; and~~

~~(5) identify policy issues, such as communication rate structures and intellectual property rights, that impact upon the ability of the public schools to make effective use of the emerging information highways and make recommendations to the Secretary and the Congress.~~

~~(c) TYPES OF GRANTS.—The Assistant Secretary shall award the following types of grants:~~

~~(1) REQUIREMENTS GRANTS.—The Assistant Secretary shall solicit proposals for and award grants to 1 or more entities for the identification of educational high performance computing and tele-~~

~~communications network requirements. The solicitation shall request proposals which—~~

~~(A) identify and describe existing and planned educational high performance computing and telecommunications network efforts;~~

~~(B) identify and describe current uses of such networks in kindergarten through twelfth grade education throughout the United States;~~

~~(C) identify potential uses of such networks in kindergarten through twelfth grade education by schools throughout the United States;~~

~~(D) assess impediments to the development of such networks in kindergarten through twelfth grade education (such as technological impediments, availability of technology-enhanced curriculum, instruction, and administrative support resources and services in local schools; and parent, student, teacher and administrator attitudes toward technology-enhanced education);~~

~~(E) assess the anticipated costs and benefits to be derived from such network access in kindergarten through twelfth grade education; and~~

~~(F) recommend priorities for development of educational access to such networks based on the anticipated cost benefit analysis.~~

~~(2) SPECIFICATIONS GRANTS.—The Assistant Secretary shall solicit proposals for and award grants to 1 or more entities for the design and development of educational specifications which may be used to ensure educational access to any national educational high performance computing and telecommunications network. The solicitation shall request proposals which—~~

~~(A) incorporate—~~

~~(i) the findings of the grant recipients under paragraph (1); and~~

~~(ii) the priorities recommended for such networks by the Assistant Secretary with the advice of the National Commission on Technology in Education;~~

~~(B) provide for the development of several distinct design alternatives, each with internal design options based on uses of alternative technologies and costs;~~

~~(C) provide for the development of specifications for selected design alternatives or of specifications for a composite design;~~

~~(D) address technological issues, including—~~

~~(i) linkage of schools and communities with each other, with central resource centers, and with Federal and State agencies over existing or planned telecommunications networks, such as INTERNET, the National Research Education Network, and Telstar 401;~~

~~(ii) uses of alternative connectivity modes, such as fiber optics, satellites, and land-based broadcasting;~~

~~(iii) integrated uses of two-way interactive voice, video, and data communications;~~

~~(iv) uses of interactive multimedia;~~

~~(v) system capacity, such as maximum telecommunications traffic in a variety of use modes;~~

~~(vi) availability of needed technologies;~~

~~(vii) availability of support services; and~~

~~(viii) assessment of the impact of proposed educational access specifications on~~

~~existing or planned telecommunications network; and~~

~~(E) provide comprehensive specifications which will ensure educational access to any national educational high performance computing and telecommunications network as the primary deliverable product of the specifications grants described in paragraph (1).~~

~~(3) PROTOTYPE DEVELOPMENT GRANTS.—The Assistant Secretary shall solicit proposals for and award grants to 1 or more entities for prototype operations on existing networks in order to validate and further develop the educational specifications which will facilitate use of existing or planned educational high performance communicating and telecommunications networks by kindergarten through twelfth grade students, teachers, administrators, and parents. The solicitation shall request proposals which—~~

~~(A) incorporate the design limits of the comprehensive educational high performance computing and telecommunications network specifications developed by grant recipients under paragraph (2);~~

~~(B) support prototype operations for at least 1 year in a minimum of 5 test sites which are selected to represent a variety of economic, social, urban and rural settings;~~

~~(C) provide for inservice training and technical assistance during the period of prototype operations;~~

~~(D) provide provisions for the identification and correction of operational problems during the period of prototype operations (including design flaws);~~

~~(E) include a comprehensive evaluation of all aspects of the prototype, including—~~

~~(i) design flaws;~~

~~(ii) training requirements, including resources and strategies for initial and ongoing training;~~

~~(iii) technical support requirements;~~

~~(iv) financing constraints;~~

~~(v) availability and utility of information resources and services accessed during the prototype operations period;~~

~~(vi) factors which enhanced or impeded prototype operations; and~~

~~(vii) an overall assessment of the impact of such technology on the educational process; and~~

~~(F) provide recommended revisions of the Assistant Secretary's educational high performance computing and telecommunications network specifications based on findings of the comprehensive evaluation of prototype operations.~~

~~(d) TIMELINE.—The Assistant Secretary shall award grants under this section in accordance with the following:~~

~~(1) REQUIREMENT GRANTS.—The Assistant Secretary shall award requirement grants under subsection (c)(1) by January 1, 1995.~~

~~(2) DEVELOPMENT OF DESIGN SPECIFICATIONS.—The Assistant Secretary shall award grants under subsection (c)(2) by January 1, 1996.~~

~~(3) PROTOTYPE OPERATIONS.—The Assistant Secretary shall award grants under subsection (c)(3) by July 1, 1997.~~

~~(e) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $2,500,000 for fiscal year 1994, $2,500,000 for fiscal year 1995, and $10,000,000 for fiscal year 1996, to carry out this section.~~

~~SEC. 504. ASSESSMENT OF TECHNOLOGY IN EDUCATION.~~

~~(a) PURPOSES.—It is the purpose of this section—~~

~~(1) to make an annual status report available to the Congress and the public regarding the state-of-the-art uses of technology in State and local educational programs throughout the United States; and~~

~~(2) to support research regarding—~~

~~(A) the effectiveness of technology-enhanced curriculum instruction;~~

~~(B) administrative support resources and services in improving education in the United States; and~~

~~(C) school library media center technological support.~~

~~(b) AUTHORITY.—The Assistant Secretary, through the Office, shall—~~

~~(1) conduct an annual assessment of the uses of technology in State and local educational programs; and~~

~~(2) award grants to support research on the effectiveness of technology-enhanced education programs.~~

~~(c) ANNUAL ASSESSMENT.—The Assistant Secretary shall conduct the annual assessment described in subsection (b)(1) by obtaining input from a variety of sources,~~

~~including State and local educational agencies, regional technology centers, university preservice and inservice technology training providers, national survey bureaus, and other departments and agencies of the Federal Government.~~

~~(1) TIMING OF THE ASSESSMENTS.—Each assessment shall be conducted during the normal school year at such a time that the data collection will coincide with other data collections and facilitate data interpretation in reference to other routinely collected educational performance data, such as student enrollment and teacher preparation statistics.~~

~~(2) INTERAGENCY COOPERATION.—The head of each Federal department or agency that supports an education program shall cooperate with the Assistant Secretary's efforts to assess and report on the utilization of technology-enhanced curriculum, instruction, and administrative support resources and services in federally supported education programs.~~

~~(3) USE OF GOVERNMENT RESOURCES; CONTRACTED SERVICES.—The Assistant Secretary shall conduct the assessments using the resources of the Office or the resources of any other Federal department or agency made available to the Assistant Sec-~~

~~retary, and by contracting for services from the public, private, or nonprofit sectors.~~

~~(4) SUBMISSION. The Assistant Secretary's annual assessment shall be submitted to the Congress in the fall of each year.~~

~~(d) EFFECTIVENESS RESEARCH. The Assistant Secretary is authorized to provide grants to public or private, nonprofit organizations or institutions for the conduct and dissemination of research on the effectiveness of new technologies for the improvement of education in the United States. In awarding such grants, the Assistant Secretary shall give priority to research projects which focus on—~~

~~(1) teaching and learning in the kindergarten through twelfth grade environment;~~

~~(2) technology-enhanced curriculum, instruction, and administrative support resources and services developed in whole or in part with Federal funding; or~~

~~(3) operational needs of elementary or secondary schools involved in implementing technology-enhanced curriculum, instruction, and administrative support resources and services to achieve the National Education Goals.~~

~~(e) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $5,000,000 for fiscal year 1994, and such sums as may be necessary in each succeeding fiscal year, to carry out this section.~~

~~TITLE VI—MISCELLANEOUS~~

~~SEC. 601. STUDY OF SYSTEMIC FUNDING ALTERNATIVES.~~

~~(a) IN GENERAL.—The Assistant Secretary shall conduct a study to evaluate, and report to the Congress on, the feasibility of several alternative models for providing systematic funding for schools throughout the United States so that such schools are able to acquire and maintain technology-enhanced curriculum, instruction, and administrative support resources and services.~~

~~(b) REPORT.—The report described in subsection (a) shall be presented to the Congress not later than August 1, 1995.~~

~~SEC. 602. PARTICIPATION OF PRIVATE SCHOOL CHILDREN.~~

~~(a) PARTICIPATION OF PRIVATE SCHOOL CHILDREN.—To the extent consistent with the number of children who are enrolled in private nonprofit elementary or secondary schools served by an entity receiving assistance under this Act, such entity shall, after consultation with appropriate private school representatives, make provision for including services and arrangements for the benefit of~~

~~such children as will assure the equitable participation of such children in the purposes and benefits of this Act.~~

~~(b) WAIVER.—If by reason of any provision of State law an entity receiving assistance under this Act is prohibited from providing for the participation of children from private nonprofit schools as required by subsection (a), or if the Secretary determines that such entity has substantially failed or is unwilling to provide for such participation on an equitable basis, the Secretary shall waive such requirements and shall arrange for the provision of services to such children.~~

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) SHORT TITLE.—This Act may be cited as the ''Technology for Education Act of 1994''.

(b) TABLE OF CONTENTS.—The table of contents is as follows:

Sec. 1. Short title; table of contents.
Sec. 2. Findings.
Sec. 3. Statement of purpose.
Sec. 4. Definitions.

TITLE I—LEADERSHIP IN EDUCATIONAL TECHNOLOGY

Sec. 101. Purposes.
Sec. 102. Federal leadership.
Sec. 103. Office of Educational Technology.
Sec. 104. Uses of funds.
Sec. 105. Non-Federal share.
Sec. 106. Office of Training Technology Transfer.
Sec. 107. Authorization of appropriations.

TITLE II—STATE PLANNING FOR IMPROVING STUDENT ACHIEVEMENT THROUGH INTEGRATION OF TECHNOLOGY INTO THE CURRICULUM

Sec. 201. State planning for improving student achievement through integration of technology into the curriculum.

TITLE III—SCHOOL TECHNOLOGY RESOURCES, TECHNICAL SUPPORT, AND PROFESSIONAL DEVELOPMENT

Sec. 301. Statement of purpose.
Sec. 302. School technology resource grants.
Sec. 303. Regional technical support and professional development.

TITLE IV—EDUCATIONAL TECHNOLOGY PRODUCT DEVELOPMENT, PRODUCTION, AND DISTRIBUTION

Sec. 401. Statement of purpose.
Sec. 402. Educational technology product development.
Sec. 403. Star Schools Program.

TITLE V—EDUCATIONAL APPLICATIONS OF ADVANCED TECHNOLOGIES AND NETWORKS

Sec. 501. Statement of purpose.
Sec. 502. Research on educational applications of advanced technologies.
Sec. 503. High performance educational computing and telecommunications networks.

TITLE VI—MISCELLANEOUS

Sec. 601. Study of systemic funding alternatives.
Sec. 602. Participation of private school children.

SEC. 2. FINDINGS.

The Congress finds that with respect to the use of technology in the educational process—

(1) technology applications can help propel our Nation's school systems into very immediate and dramatic reform, without which our Nation will not meet the National Education Goals by the target year 2000;

(2) creative uses of technology can reshape our Nation's outdated method of providing education and empower teachers to create an environment where students can be challenged through rigorous, rich classroom instruction at a pace that suits the learning style of each individual student;

(3) the acquisition and use of technology in education throughout the United States has been inhibited by—

(A) the limited exposure of students and teachers to the power of technology as a cost-effective tool to improve student learning and achievement;

(B) the inability of many State and local educational agencies to invest in and support needed technologies;

(C) the lack of appropriate electrical and telephone connections in the classroom; and

(D) the limited availability of technology-enhanced curriculum, professional development and administrative support resources and services in the educational marketplace;

(4) advancements in technology offer new opportunities to promote partnerships among teachers, administrators, students, parents, communities, and industry in the quest for knowledge and the process for learning;

(5) technology, when used as an essential tool in the learning process, will help cultivate and maintain a technologically literate citizenry and internationally competitive work force;

(6) the Department of Education, consistent with the overall national technology policy established by the President, must assume a vital leadership and coordinating role in developing the national vision and strategy to infuse advanced technology throughout all educational programs;

(7) Federal support can ease the burden at the State and local levels by enabling the acquisition of advanced technology and initiating the development of teacher training and support as well as new educational products;

(8) leadership at the Federal level should consider guidelines to ensure that educational technology is accessible to all users with maximum interoperability nationwide;

(9) policies at the Federal, State, and local levels concerning technology in education must address disparities in the availability of technology to different groups of students and make it a priority to serve those students in greatest need;

(10) continuing professional development for teachers and administrators requires ongoing exposure to advancements in technology in order to keep such teachers and administrators excited and knowl-

edgeable about the unfolding opportunities for the classroom; and

(11) the increasing use of new technologies and telecommunications systems in business has increased the gap between schooling and work force preparation, and underscores the need for technology policies at the Federal, State, and local levels that address preparation for school-to-work transitions.

SEC. 3. STATEMENT OF PURPOSE.

It is the purpose of this Act—

(1) to promote equal access for all students to educational opportunities through advances in technology, including the information infrastructure, in order to achieve the National Education Goals by the year 2000;

(2) to provide funding that will assist activities undertaken by the State and local school districts to promote and provide equipment, teacher training, and technical support;

(3) to support technical assistance, professional development, information and resource dissemination, in order to help States, local school districts, and teachers successfully integrate technology into kindergarten through 12th grade classrooms;

(4) to support the development of educational and instructional programming in core subject areas, which programming shall address the National Education Goals;

(5) to offer opportunities for creative partnerships within the marketplace in order to develop state-of-the-art educational technology products that promote the use of advanced technologies in the classroom;

(6) to avoid duplication and the development of incompatible systems by strengthening and building upon existing telecommunications infrastructure dedicated to educational purposes; and

(7) to ensure that uses of educational technology are consistent with the overall national technology policy established by the President.

SEC. 4. DEFINITIONS.

(a) IN GENERAL.—The terms used in this Act, unless otherwise specified, shall have the same meaning given to such terms by section 1471 of the Elementary and Secondary Education Act of 1965.

(b) ADDITIONAL DEFINITIONS.—For the purpose of this Act—

(1) the term ''all students'' means students from a broad range of backgrounds and circumstances, in-

cluding disadvantaged students, students with diverse racial, ethnic, and cultural backgrounds, students with disabilities, students with limited-English proficiency, students who have dropped out of school, and academically talented students;

(2) the term ''information infrastructure'' means a network of communication systems designed to exchange information among all citizens and residents of the United States;

(3) the terms ''interoperable'' and ''interoperability'' refer to the ability to easily exchange data with, and connect to, other hardware and software in order to provide the greatest accessibility for all students;

(4) the term ''Office'' means the Office of Educational Technology;

(5) the term ''public telecommunications entity'' has the same meaning given to such term by section 397(12) of the Communications Act of 1934;

(6) the term ''technology'' means state-of-the-art technology products and services, such as closed circuit television systems, educational television and radio programs and services, cable television, satellite, copper and fiber optic transmission, computer, video

and audio laser and CD-ROM discs, and video and audio tapes; and

(7) the term ''instructional programming'' means the full range of audio and video data, text, graphics, or additional state-of-the-art communications, including multimedia based resources distributed through interactive, command and control, or passive methods for the purpose of education and instruction.

TITLE I—LEADERSHIP IN EDUCATIONAL TECHNOLOGY

SEC. 101. PURPOSES.

It is the purpose of this title to promote achievement of the National Education Goals and—

(1) to provide leadership at the Federal level, through the Department of Education, by developing a national vision and strategy—

(A) to infuse technology and technology planning into all educational programs and training functions carried out within school systems at the State and local level;

(B) to coordinate educational technology activities among the related Federal and State departments or agencies, industry leaders, and interested educational and parental organizations;

(C) to establish working guidelines to ensure maximum interoperability nationwide and ease of access for the emerging technologies so that no school system will be excluded from the technological revolution; and

(D) to ensure that Federal technology-related policies and programs facilitate the use of technology in education;

(2) to promote awareness of the potential of technology for improving teaching and learning;

(3) to support State and local efforts to increase the effective use of technology for education;

(4) to demonstrate ways in which technology can be used to improve teaching and learning, and to help ensure that all students have an equal opportunity to meet challenging State education standards;

(5) to ensure the availability and dissemination of knowledge (drawn from research and experience) that can form the basis for sound State and local decisions about investment in, and effective uses of, educational technology;

(6) to promote high-quality professional development opportunities for teachers and administrators regarding the integration of technology into instruction and administration;

(7) to promote the effective uses of technology in existing Federal education programs, such as chapter 1 of title I of the Elementary and Secondary Education Act of 1965 and vocational education programs; and

(8) to monitor, and disseminate information regarding, advancements in technology to encourage the development of effective educational uses of technology.

SEC. 102. FEDERAL LEADERSHIP.

(a) ACTIVITIES AUTHORIZED.—

(1) IN GENERAL.—In order to provide Federal leadership that promotes higher student achievement through the use of technology in education and to achieve the purposes of this title, the Secretary, in consultation with the Office of Science and Technology Policy, the National Science Foundation, the United States National Commission on Libraries and Information Sciences, the Department of Commerce, the Department of Energy, the National Aeronautics and Space Administration, and other appropriate Federal departments or agencies, may carry out activities designed to achieve the purposes of this title.

(2) TRANSFER OF FUNDS.—For the purpose of carrying out coordinated or joint activities to achieve the purposes of this title, the Secretary may accept

funds from, and transfer funds to, other Federal departments or agencies.

(b) NATIONAL LONG-RANGE TECHNOLOGY PLAN.—

(1) IN GENERAL.—The Secretary shall develop and publish within 12 months of the date of enactment of this Act, and update when the Secretary determines appropriate, a national long-range plan that supports the overall national technology policy and carries out the purposes of this title.

(2) PLAN REQUIREMENTS.—The Secretary shall—

(A) develop the national long-range plan in consultation with other Federal departments or agencies, State and local education practitioners and policymakers, experts in technology and the educational applications of technology, representatives of distance learning consortia, representatives of telecommunications partnerships receiving assistance under the Star Schools Program Assistance Act, and providers of technology services and products;

(B) transmit such plan to the President and to the appropriate committees of the Congress; and

(C) publish such plan in a form that is readily accessible to the public.

(3) CONTENTS OF THE PLAN.—The national long-range plan shall describe the Secretary's activities to promote the purposes of this title, including—

(A) how the Secretary will encourage the effective use of technology to provide all students the opportunity to achieve challenging State content standards and challenging State student performance standards, especially through programs administered by the Department of Education;

(B) joint activities in support of the overall national technology policy with other Federal departments or agencies, such as the Office of Science and Technology Policy, the National Endowment for the Humanities, the National Endowment for the Arts, the National Aeronautics and Space Administration, the National Science Foundation, and the Departments of Commerce, Energy, Health and Human Services, and Labor—

(i) to promote the use of technology in education, and training and lifelong learning, including plans for the educational

uses of a national information infrastructure; and

(ii) to ensure that the policies and programs of such departments or agencies facilitate the use of technology for educational purposes, to the extent feasible;

(C) how the Secretary will work with educators, State and local educational agencies, and appropriate representatives of the private sector to facilitate the effective use of technology in education;

(D) how the Secretary will promote—

(i) higher achievement of all students through the integration of technology into the curriculum;

(ii) increased access to the benefits of technology for teaching and learning for schools with a high concentration of children from low-income families;

(iii) the use of technology to assist in the implementation of State systemic reform strategies;

(iv) the application of technological advances to use in education; and

(v) increased opportunities for the professional development of teachers in the use of new technologies;

(E) how the Secretary will determine, in consultation with appropriate individuals, organizations, industries, and agencies, the feasibility and desirability of establishing guidelines to facilitate an easy exchange of data and effective use of technology in education;

(F) how the Secretary will utilize the outcomes of the evaluation undertaken pursuant to section 908 of the Star Schools Program Assistance Act to promote the purposes of this title; and

(G) the Secretary's long-range measurable goals and objectives relating to the purposes of this title.

(c) ASSISTANCE.—The Secretary shall provide assistance to the States to enable such States to plan effectively for the use of technology in all schools throughout the State in accordance with the purpose and requirements of section 201.

SEC. 103. OFFICE OF EDUCATIONAL TECHNOLOGY.

(a) AMENDMENT TO THE DEPARTMENT OF EDUCATION ORGANIZATION ACT.—Title II of the Department of Edu-

cation Organization Act (20 U.S.C. 3411 et seq.) is amended by adding at the end the following new section:

''OFFICE OF EDUCATIONAL TECHNOLOGY

''SEC. 216. There shall be in the Department of Education an Office of Educational Technology, to be administered by the Director of Educational Technology. The Director of Educational Technology shall report directly to the Secretary and shall perform such additional functions as the Secretary may prescribe. Such Office shall be established in accordance with section 405A of the General Education Provisions Act.''.

(b) AMENDMENT TO THE GENERAL EDUCATION PROVISIONS ACT.—Part A of the General Education Provisions Act (20 U.S.C. 1221c et seq.) is amended by inserting after section 405 the following new section:

''SEC. 405A. OFFICE OF EDUCATIONAL TECHNOLOGY.

''(a) ESTABLISHMENT.—The Secretary shall establish an Office of Educational Technology (hereafter in this section referred to as the 'Office').

''(b) FUNCTIONS OF THE OFFICE.—The Director of the Office of Educational Technology (hereafter in this section referred to as the 'Director'), through the Office, shall—

''(1) in support of the overall national technology policy and in consultation with other Federal departments or agencies which the Director determines appropriate, provide leadership to the Nation in the use

of technology to promote achievement of the National Education Goals and to increase opportunities for all students to achieve challenging State content and challenging State student performance standards;

"(2) review all programs and training functions administered by the Department and recommend policies in order to promote increased use of technology and technology planning throughout all such programs and functions;

"(3) review all relevant programs supported by the Department to ensure that such programs are coordinated with and support the national long-range technology plan developed pursuant to this Act; and

"(4) perform such additional functions as the Secretary may require.

"(c) PERSONNEL.—The Director is authorized to select, appoint, and employ such officers and employees as may be necessary to carry out the functions of the Office, subject to the provisions of title 5, United States Code (governing appointments in the competitive service), and the provisions of chapter 51 and subchapter III of chapter 53 of such title (relating to classification and General Schedule pay rates.

"(d) EXPERTS AND CONSULTANTS.—The Secretary may obtain the services of experts and consultants in accordance with section 3109 of title 5, United States Code.".

(c) COMPENSATION OF THE DIRECTOR.—Section 5315 of title 5, United States Code, is amended by adding at the end the following:

"Director of the Office of Educational Technology.".

SEC. 104. USES OF FUNDS.

(a) IN GENERAL.—The Secretary shall use funds appropriated pursuant to the authority of section 107 for activities designed to carry out the purpose of this title, including—

(1) providing assistance to technical assistance providers to enable such providers to improve substantially the services such providers offer to educators regarding the educational uses of technology, including professional development;

(2) consulting with representatives of industry, elementary and secondary education, higher education, and appropriate experts in technology and the educational applications of technology, in carrying out the activities assisted under this title;

(3) research on, and the development of, guidelines to facilitate maximum interoperability, effi-

ciency and easy exchange of data for effective use of technology in education;

(4) research on, and the development of, educational applications of the most advanced and newly emerging technologies;

(5) the development, demonstration, and evaluation of applications of existing technology in preschool education, elementary and secondary education, training and lifelong learning, and professional development of educational personnel;

(6) the development and evaluation of software and other products, including multimedia television programming, that incorporate advances in technology and help achieve the National Education Goals, challenging State content standards and challenging State student performance standards;

(7) the development, demonstration, and evaluation of model strategies for preparing teachers and other personnel to use technology effectively to improve teaching and learning;

(8) the development of model programs that demonstrate the educational effectiveness of technology in urban and rural areas and economically distressed communities;

(9) research on, and the evaluation of, the effectiveness and benefits of technology in education giving priority to research on, and evaluation of, such effectiveness and benefits in elementary and secondary schools;

(10) a biannual assessment of, and report to the public regarding, the uses of technology in elementary and secondary education throughout the United States upon which private businesses and Federal, State and local governments may rely for decision-making about the need for, and provision of, appropriate technologies in schools, which assessment and report shall use, to the extent possible, existing information and resources;

(11) conferences on, and dissemination of information regarding, the uses of technology in education;

(12) the development of model strategies to promote gender equity in the use of technology;

(13) encouraging collaboration between the Department of Education and other Federal agencies in the development, implementation, evaluation and funding of applications of technology for education, as appropriate; and

(14) such other activities as the Secretary determines will meet the purposes of this title.

(b) SPECIAL RULES.—

(1) IN GENERAL.—The Secretary shall carry out the activities described in subsection (a) directly or by grant or contract.

(2) GRANTS AND CONTRACTS.—Each grant or contract under this title shall be awarded—

(A) on a competitive basis; and

(B) pursuant to a peer review process.

SEC. 105. NON-FEDERAL SHARE.

(a) IN GENERAL.—Subject to subsections (b) and (c), the Secretary may require any recipient of a grant or contract under this title to share in the cost of the activities assisted under such grant or contract, which non-Federal share shall be announced through a notice in the Federal Register and may be in the form of cash or in-kind contributions, fairly valued.

(b) INCREASE.—The Secretary may increase the non-Federal share that is required of a recipient of a grant or contract under this title after the first year such recipient receives funds under such grant or contract.

(c) MAXIMUM.—The non-Federal share required under this section shall not exceed 50 percent of the cost of the activities assisted pursuant to a grant or contract under this title.

SEC. 106. OFFICE OF TRAINING TECHNOLOGY TRANSFER.

(a) TRANSFER.—

(1) IN GENERAL.—The Office of Training Technology Transfer as established under section 6103 of the Training Technology Transfer Act of 1988 (20 U.S.C. 5093) is transferred to the Office of Educational Technology.

(2) TECHNICAL AMENDMENT.—The first sentence of section 6103(a) of the Training Technology Transfer Act of 1988 (20 U.S.C. 5093(a)) is amended by striking ''Office of Educational Research and Improvement'' and inserting ''Office of Educational Technology''.

(b) AUTHORIZATION OF APPROPRIATIONS.—The Training Technology Transfer Act of 1988 (20 U.S.C. 5091 et seq.) is amended by adding at the end the following new section:

''SEC. 6108. AUTHORIZATION OF APPROPRIATIONS.

''There are authorized to be appropriated $3,000,000 for fiscal year 1995, and such sums as may be necessary for each of the fiscal years 1996 through 1999, to carry out this chapter.''.

SEC. 107. AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated $5,000,000 for the fiscal year 1994, and such sums as may be necessary

for each of the fiscal years 1995 through 1998, to carry out this title.

TITLE II—STATE PLANNING FOR IMPROVING STUDENT ACHIEVEMENT THROUGH INTEGRATION OF TECHNOLOGY INTO THE CURRICULUM

SEC. 201. STATE PLANNING FOR IMPROVING STUDENT ACHIEVEMENT THROUGH INTEGRATION OF TECHNOLOGY INTO THE CURRICULUM.

(a) PURPOSE.—It is the purpose of this section to assist each State to plan effectively for improved student learning in all schools through the use of technology as an integral part of the State improvement plan described in section 306 of the Goals 2000: Educate America Act.

(b) PROGRAM AUTHORIZED.—

(1) AUTHORITY.—The Secretary shall award grants in accordance with allocations under paragraph (2) to each State educational agency that, as part of its application under section 305 of the Goals 2000: Educate America Act, requests a grant to develop (or continue the development of), and submits as part of the State improvement plan described in section 306 of such Act, a systemic statewide plan to increase the use of state-of-the-art technologies that

enhance elementary and secondary student learning and professional development in support of the National Education Goals and challenging standards.

(2) FORMULA.—From the amount appropriated pursuant to the authority of subsection (f) in each fiscal year, each State educational agency with an application approved under section 305 of the Goals 2000: Educate America Act shall receive a grant under paragraph (1) in such year in an amount determined on the same basis as allotments are made to State educational agencies under subsections (b) and (c) of section 304 of such Act for such year, except that each such State shall receive at least 1½ percent of the amount appropriated pursuant to such authority or $75,000, whichever is greater.

(3) DURATION.—A State educational agency may receive assistance under this section for not more than 2 fiscal years.

(c) PLAN OBJECTIVES.—Each State educational agency shall use funds received under this section to develop and, if the Secretary has approved the systemic statewide plan, to implement such plan. Such plan shall have as its objectives—

(1) the promotion of higher student achievement through the use of technology in education;

(2) the participation of all schools and school districts in the State, especially those schools and districts with a high percentage of disadvantaged students;

(3) the development and implementation of a cost-effective, high-speed, statewide, interoperable, wide-area-communication educational technology support system for elementary and secondary schools within the State, particularly for such schools in rural areas; and

(4) the promotion of shared usage of equipment, facilities, and other technology resources by adult learners during after-school hours.

(d) PLAN REQUIREMENTS.—At a minimum, each systemic statewide plan shall—

(1) be developed by a task force that—

(A) includes among its members experts in the educational use of technology and representatives of the State panel described in section 306(b) of the Goals 2000: Educate America Act; and

(B) ensures that such plan is integrated into the State improvement plan described in section 306 of the Goals 2000: Educate America Act;

(2) be developed in collaboration with the Governor, representatives of the State legislature, the State board of education, institutions of higher education, appropriate State agencies, local educational agencies, public and private telecommunication entities, parents, public and school libraries, students, adult literacy providers, and leaders in the field of technology, through a process of statewide grassroots outreach to local educational agencies and schools in the State;

(3) identify and describe the requirements for introducing state-of-the-art technologies into the classroom and school library in order to enhance educational curricula, including the installation and ongoing maintenance of basic connections, hardware and the necessary support materials;

(4) describe how the application of advanced technologies in the schools will enhance student learning, provide greater access to individualized instruction, promote the strategies described in section 306(d) of the Goals 2000: Educate America Act, and help make progress toward the achievement of the National Education Goals;

(5) describe how the ongoing training of educational personnel will be provided;

(6) describe the resources necessary, and procedures, for providing ongoing technical assistance to carry out such plan;

(7) provide for the dissemination on a statewide basis of exemplary programs and practices relating to the use of technology in education;

(8) establish a funding estimate (including a statement of likely funding sources) and a schedule for the development and implementation of such plan;

(9) describe how the State educational agency will assess the impact of implementing such plan on student achievement and aggregate achievement for schools;

(10) describe how the State educational agency and local educational agencies in the State will coordinate and cooperate with business and industry, and with public and private telecommunications entities;

(11) describe how the State educational agency will promote the purchase of equipment by local educational agencies that, when placed in schools, will meet the highest possible level of interoperability and open system design;

(12) describe how the State educational agency will consider using existing telecommunications infrastructure and technology resources;

(13) describe how the State educational agency will apply the uses of technology to meet the needs of children from low-income families; and

(14) describe the process through which such plan will be reviewed and updated periodically.

(e) REPORTS.—Each State educational agency receiving a grant under this section shall submit a report to the Secretary within 1 year of the date such agency submits to the Secretary its systemic statewide plan under this section. Such report shall—

(1) describe the State's progress toward implementation of the provisions of such plan;

(2) describe any revisions to the State's long-range plans for technology;

(3) describe the extent to which resources provided pursuant to such plan are distributed among schools to promote the strategies described in section 306(d) of the Goals 2000: Educate America Act; and

(4) include any other information the Secretary deems appropriate.

(f) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $10,000,000 for fiscal year

1994, and such sums as may be necessary for fiscal year 1995, to carry out this section.

TITLE III—SCHOOL TECHNOLOGY RESOURCES, TECHNICAL SUPPORT, AND PROFESSIONAL DEVELOPMENT

SEC. 301. STATEMENT OF PURPOSE.

It is the purpose of this title to provide Federal assistance in the form of grants to support—

(1) the acquisition of equipment and supporting resources, training, and maintenance of technology; and

(2) regional consortia to enable such consortia to provide professional development and technical assistance that fosters integration of technology into the kindergarten through 12th grade classrooms, libraries, and school library media centers.

SEC. 302. SCHOOL TECHNOLOGY RESOURCE GRANTS.

(a) GRANTS AUTHORIZED.—

(1) AUTHORITY.—The Secretary, through the Office of Educational Technology, shall award grants to State educational agencies having a systemic statewide plan that meets such criteria as the Secretary may establish in order to enable such agencies to provide assistance to local educational agencies that have

the highest percentages of children in poverty and demonstrate the greatest need for technology, in order to enable such local educational agencies, for the benefit of school sites served by such local educational agencies, to—

(A) purchase quality technology resources;

(B) install various linkages necessary to acquire connectivity;

(C) integrate technology into the curriculum in order to improve student learning and achievement;

(D) provide teachers and library media personnel with training or access to training;

(E) provide administrative and technical support and services that improve student learning through enriched technology-enhanced resources, including library media resources;

(F) promote the sharing, distribution, and application of educational technologies that are determined to be effective in individual schools; and

(G) assist the community in providing literacy-related services.

(2) AMOUNT.—(A) Except as provided in subparagraph (B), the Secretary shall award grants

under this section to each State educational agency in an amount which bears the same relationship to the amount appropriated pursuant to the authority of subsection (b) as the amount such State received under chapter 1 of title I of the Elementary and Secondary Education Act of 1965 bears to the amount received under such chapter by all States.

(B) No State educational agency shall receive a grant pursuant to subparagraph (A) in any fiscal year in an amount which is less than one-half of 1 percent of the amount appropriated pursuant to the authority of subsection (b) for such year.

(3) IDENTIFICATION OF LOCAL EDUCATIONAL AGENCIES; TECHNICAL ASSISTANCE.—Each State educational agency receiving a grant under this section shall—

(A) identify the local educational agencies served by the State educational agency that—

(i) have the highest percentage of children in poverty; and

(ii) demonstrate to such State educational agency the greatest need for technical assistance in developing the application described in subsection (d); and

(B) offer such technical assistance to such local educational agencies.

(4) LIMITATION ON STATE COSTS.—Not more than 5 percent of grant funds awarded to a State educational agency under this section may be used by the State or State educational agency for administrative costs or technical assistance.

(b) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $200,000,000 for fiscal year 1995, and such sums as may be necessary for the 4 succeeding fiscal years, to carry out this section.

(c) LOCAL USES OF GRANT FUNDS.—Each local educational agency receiving assistance under this section may use such assistance—

(1) to acquire connectivity linkages, and resources and services, including the acquisition of hardware and software, for use by teachers, students and library media personnel in the classroom or in school library media centers, in order to improve student learning by supporting the instructional program offered by such agency to ensure that students in schools will have meaningful access on a regular basis to such linkages, resources and services;

(2) for ongoing professional development in the integration of quality instructional educational tech-

nologies into school curriculum and long-term planning for implementing educational technologies; and

(3) to acquire connectivity with wide area networks for purposes of accessing information and educational programming sources.

(d) LOCAL APPLICATIONS.—Each local educational agency desiring assistance under this section shall submit an application consistent with the objectives of the systemic statewide plan to the State educational agency at such time and in such manner as such agency may prescribe. Such application, at a minimum, shall—

(1) include a strategic, long-range (3- to 5-year), plan that includes—

(A) a description of the type of technologies to be acquired, including specific provisions for interoperability among components of such technologies and, to the extent practicable, with existing technologies;

(B) an explanation of how the acquired technologies will be integrated into the curriculum to help the local educational agency enhance teaching, training, and student achievement;

(C) an explanation of how programs will be developed in collaboration with existing adult literacy services providers to maximize the use of

such technologies at times other than the regular school day;

(D)(i) a description of how the local educational agency will ensure ongoing, sustained professional development for teachers, administrators, and school library media personnel served by the local educational agency to further the use of technology in the classroom or library media center; and

(ii) a list of the source or sources of ongoing training and technical assistance available to schools, teachers and administrators served by the local educational agency, such as State technology offices, intermediate educational support units, regional educational laboratories or institutions of higher education;

(E) a description of the supporting resources, such as services, software and print resources, which will be acquired to ensure successful and effective use of technologies acquired under this section;

(F) the projected timetable for implementing such plan in schools;

(G) the projected cost of technologies to be acquired and related expenses needed to implement such plan; and

(H) a description of how the local educational agency will coordinate the technology provided pursuant to this title with other grant funds available for technology from State and local sources;

(2) describe how the local educational agency will involve parents, public libraries, business leaders and community leaders in the development of such plan;

(3) describe how the acquired instructionally based technologies will help the local educational agency—

(A) promote equity in education in order to support challenging State content standards and challenging State student performance standards that may be developed; and

(B) provide access for both teachers and students to the best teaching practices and curriculum resources through technology; and

(4) describe a process for the ongoing evaluation of how technologies acquired under this section—

(A) will be integrated into the school curriculum; and

(B) will affect student achievement and progress toward meeting the National Education Goals and any challenging State content standards and challenging State student performance standards that may be developed.

SEC. 303. REGIONAL TECHNICAL SUPPORT AND PROFESSIONAL DEVELOPMENT.

(a) GRANTS AUTHORIZED.—

(1) AUTHORITY.—The Secretary, through the Office of Educational Technology, shall make grants, on a competitive basis, to regional educational technology assistance consortia in accordance with the provisions of this section. In awarding grants under this section, the Secretary shall ensure that each geographic region of the United States shall be served by such a consortium.

(2) REQUIREMENTS.—Each consortium receiving a grant under this section shall—

(A) be composed of State educational agencies, institutions of higher education, nonprofit organizations, or a combination thereof; and

(B) in cooperation with State and local educational agencies, develop a regional program

that addresses professional development, technical assistance, and information resource dissemination, with special emphasis on meeting the documented needs of educators and learners in the region.

(3) SPECIAL RULE.—Each consortium receiving a grant under this section shall use not less than 80 percent of the grant funds to carry out paragraph (2) of subsection (b).

(b) FUNCTIONS.—

(1) TECHNICAL ASSISTANCE.—Each consortium receiving a grant under this section shall—

(A) collaborate with State educational agencies and local educational agencies requesting collaboration, in the development of systemic statewide plans described in section 316 of the Goals 2000: Educate America Act, particularly in the development of strategies for assisting those schools with the highest percentages of disadvantaged students with little or no access to technology in the classroom;

(B) provide information, in coordination with information available from the Secretary, to States, local educational agencies, and schools on the types and features of various educational

technology equipment and software available, evaluate and make recommendations on equipment and software that support the National Education Goals and are suited for a school's particular needs, and compile and share information regarding creative and effective applications of technology in the classroom in order to support the purposes of this Act;

(C) collaborate with such State educational agencies, local educational agencies, or schools, requesting to participate in the tailoring of software programs and other supporting materials to meet State curriculum standards (if a State has such standards) and individual needs of schools and students; and

(D) provide technical assistance to facilitate use of the electronic dissemination networks by State and local educational agencies and schools throughout the region.

(2) PROFESSIONAL DEVELOPMENT.—Each consortium receiving a grant under this section shall—

(A) develop and implement, in collaboration with State educational agencies and institutions of higher education, technology specific, ongoing professional development, such as—

(i) intensive school year and summer workshops that use teachers to train other teachers; and

(ii) distance educational professional development, including—

(I) interactive satellite training telecourses using researchers, educators, and telecommunications personnel who have experience in developing, implementing, or operating educational and instructional technology as a learning tool;

(II) onsite courses teaching teachers to use educational and instructional technology and to develop their own instructional materials for effectively incorporating technology and programming in their own classrooms;

(III) methods for successful integration of instructional technology into the curriculum in order to improve student learning and achievement; and

(IV) video conferences and seminars which offer professional development through peer interaction with ex-

perts as well as other teachers using technologies in their classrooms;

(B) develop training resources that—

(i) are relevant to the needs of the region and schools within the region;

(ii) are relevant to the needs of adult literacy staff and volunteers, including on-site courses on how to use instructional technology and developing instructional materials for adult learning; and

(iii) are aligned with the needs of teachers and administrators in the region, including teachers and administrators from public and private schools;

(C) establish a repository of professional development and technical assistance resources;

(D) identify and link technical assistance providers to State and local educational agencies, as needed;

(E) provide followup to ensure that training, professional development, and technical assistance meet the needs of educators and students served by the region; and

(F) assist colleges and universities within the region to develop and implement preservice

training programs for students enrolled in teacher education programs.

(3) INFORMATION AND RESOURCE DISSEMINATION.—Each consortium receiving a grant under this section shall—

(A) assist State and local educational agencies in the identification and procurement of financial, technological and human resources needed to implement technology plans;

(B) provide outreach, and, at the request of a State or local educational agency, work with such agency to assist in the development and validation of instructionally based technology education resources; and

(C) coordinate activities and establish partnerships with organizations and institutions of higher education that represent the interests of the region as such interests pertain to the application of technology in teaching, learning, instructional management, dissemination, collection and distribution of educational statistics, and the transfer of student information.

(4) COORDINATION.—Each consortium receiving a grant under this section shall work collaboratively, and coordinate the services the consortium provides,

with appropriate entities assisted in whole or in part by the Department of Education.

(5) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $50,000,000 for the fiscal year 1995, and such sums as may be necessary for each of the 4 succeeding fiscal years, to carry out this section.

TITLE IV—EDUCATIONAL TECHNOLOGY PRODUCT DEVELOPMENT, PRODUCTION, AND DISTRIBUTION

SEC. 401. STATEMENT OF PURPOSE.

It is the purpose of this title to support development, production, and distribution of technology-enhanced curriculum, and instruction and administrative support resources and services, by—

(1) establishing as a priority for federally supported education technology programs the development (as opposed to research) of such programs;

(2) authorizing support for the development, production and distribution of technology-enhanced instructional resources and services under this title; and

(3) reauthorizing the Star Schools Program Assistance Act.

SEC. 402. EDUCATIONAL TECHNOLOGY PRODUCT DEVELOPMENT.

(a) PURPOSE.—It is the purpose of this section to—

(1) support development of curriculum-based learning resources using state-of-the-art technologies and techniques designed to improve student learning; and

(2) support development of long-term comprehensive instructional programming and associated support resources that ensure maximum access by all educational institutions.

(b) FEDERAL ASSISTANCE AUTHORIZED.—

(1) AUTHORITY.—The Secretary, through the Office of Educational Technology, shall award grants, on a competitive basis, to eligible consortia to pay the Federal share of the cost of the development, production, and distribution of instructional programming for students, and the development of programming for teachers, which incorporates state-of-the-art applications of advanced technology-enhanced learning resources, including educational radio and television.

(2) ELIGIBLE CONSORTIUM.—For the purpose of this subsection the term ''eligible consortium'' means a consortium—

(A) that shall include—

(i) a State or local educational agency; and

(ii) a business, industry or telecommunications entity; and

(B) that may include—

(i) a public or private nonprofit organization; or

(ii) a postsecondary institution.

(3) PRIORITY.—In awarding grants under this section, the Secretary shall give priority to applications describing programs or systems that are developed—

(A) so that the program or system may be adapted and applied nationally at a reasonable cost over a broad technology platform;

(B) to raise the achievement levels of all students, particularly students who are not realizing their potential;

(C) in consultation with classroom teachers;

(D) through consultation and collaboration with appropriate education entities in designing the program or system to ensure relevance to the voluntary national content standards, the voluntary national student performance standards and State curriculum frameworks; and

(E) so that the program or system can be adapted for use by adults in need of literacy services, including English as a second language and preparation for a high school diploma or its equivalent.

(4) MATCHING REQUIREMENT.—The Secretary may require any recipient of a grant or contract under this title to share in the cost of the activities assisted under such grant or contract, which non-Federal share shall be announced through a notice in the Federal Register and may be in the form of cash or in-kind contributions, fairly valued.

(5) REQUIREMENTS FOR FEDERAL ASSISTANCE.—Each eligible consortium desiring Federal assistance under this section shall submit an application to the Secretary at such time and in such manner as the Secretary may prescribe. Each application shall include—

(A) a description of how the program or system plans to improve the achievement levels of students;

(B) a description of how the activities assisted under this section will promote professional development of teachers and administrators in the uses and applications of the program

or system, including the development of training materials;

(C) a description of design, development, field testing, evaluation, and distribution of products, where appropriate;

(D) an assurance that the program or system shall effectively serve a significant number or percentage of economically disadvantaged students;

(E) plans for dissemination to a wide audience of learners; and

(F) provisions for closed captioning or descriptive video, where appropriate.

(c) CONSUMER REPORT.—The Secretary shall disseminate information about products developed pursuant to provisions of this section to State and local educational agencies, and other organizations or individuals that the Secretary determines to be appropriate, through print and electronic media that are accessible to the education community at large.

(d) ROYALTIES.—Notwithstanding any other provision of law, any royalties paid to any State or local educational agency as a result of assistance provided under this section shall be used by such agency for further development

of curriculum-based learning resources authorized by this section.

(e) PROGRAM RELATED OPERATING FUNDS FOR INSTRUCTIONAL TEACHER TRAINING (PROFIT).—The Secretary shall allow an eligible consortium to receive a financial benefit from the distribution of programming assisted under this section. Such benefit shall be used by the eligible consortium to support further development of curriculum-specific programming and to provide greater access to a wider audience of educational programming.

(f) AUTHORIZATION OF FUNDS.—There are authorized to be appropriated $50,000,000 for the fiscal year 1995, and such sums as may be necessary for each of the 4 succeeding fiscal years, to carry out this section.

SEC. 403. STAR SCHOOLS PROGRAM.

The Star Schools Program Assistance Act (20 U.S.C. 4081 et seq.) is amended to read as follows:

"TITLE IX—STAR SCHOOLS PROGRAM

"SEC. 901. SHORT TITLE.

"This title may be cited as the 'Star Schools Program Assistance Act'.

"SEC. 902. PURPOSE.

"It is the purpose of this title to encourage improved instruction in mathematics, science, and foreign languages

as well as other subjects, such as literacy skills and vocational education, and to serve underserved populations, including the disadvantaged, illiterate, limited-English proficient, and disabled, through a star schools program under which grants are made to eligible telecommunication partnerships to enable such partnerships to—

"(1) develop, construct, acquire, maintain and operate telecommunications audio and visual facilities and equipment;

"(2) develop and acquire educational and instructional programming; and

"(3) obtain technical assistance for the use of such facilities and instructional programming.

"SEC. 903. GRANTS AUTHORIZED.

"(a) AUTHORITY.—The Secretary, through the Office of Educational Technology, is authorized to make grants, in accordance with the provisions of this title, to eligible telecommunications partnerships to pay the Federal share of the cost of—

"(1) the development, construction, acquisition, maintenance and operation of telecommunications facilities and equipment;

"(2) the development and acquisition of live, interactive instructional programming;

"(3) the development and acquisition of preservice and inservice teacher training programs based on established research regarding teacher-to-teacher mentoring, effective skill transfer, and ongoing, in-class instruction;

"(4) the establishment of teleconferencing facilities and resources for broadcasting interactive training to teachers;

"(5) obtaining technical assistance; and

"(6) the coordination of the design and connectivity of telecommunications networks to reach the greatest number of schools.

"(b) DURATION.—

"(1) IN GENERAL.—The Secretary shall award grants pursuant to subsection (a) for a period of 5 years.

"(2) RENEWAL.—Grants awarded pursuant to subsection (a) may be renewed for 1 additional 5-year period.

"(c) AUTHORIZATION OF APPROPRIATIONS.—

"(1) IN GENERAL.—There are authorized to be appropriated $35,000,000 for fiscal year 1995, and such sums as may be necessary for each of the 4 succeeding fiscal years, to carry out this title.

"(2) AVAILABILITY.—Funds appropriated pursuant to the authority of subsection (a) shall remain available until expended.

"(d) LIMITATIONS.—

"(1) AMOUNT.—A grant made to an eligible telecommunications partnership under this title shall not exceed $5,000,000 in any 1 fiscal year.

"(2) RESERVATIONS.—

"(A) INSTRUCTIONAL PROGRAMMING.—Not less than 25 percent of the funds available to the Secretary in any fiscal year under this title shall be used for the cost of instructional programming.

"(B) FACILITIES AND EQUIPMENT.—Not less than 25 percent of the funds available to the Secretary in any fiscal year under this title shall be used for telecommunications facilities and equipment.

"(3) SPECIAL RULE.—Not less than 50 percent of the funds available in any fiscal year under this title shall be used for the cost of facilities, equipment, teacher training or retraining, technical assistance, or programming, for local educational agencies which are eligible to receive assistance under chapter 1 of

title I of the Elementary and Secondary Education Act of 1965.

"(e) FEDERAL SHARE.—

"(1) IN GENERAL.—The Federal share for any fiscal year shall be not more than 75 percent.

"(2) WAIVER.—The Secretary may reduce or waive the requirements of the non-Federal share required under paragraph (1) for good cause, as determined by the Secretary.

"(f) COORDINATION.—The Department of Education, the National Science Foundation, the Department of Agriculture, and any other Federal department or agency operating a telecommunications network for educational purposes, shall coordinate the activities assisted under this title with the activities of such department or agency relating to a telecommunications network for educational purposes.

"(g) CLOSED CAPTIONING AND DESCRIPTIVE VIDEO.—Each entity receiving funds under this title is encouraged to provide—

"(1) closed captioning of the verbal content of such program, where appropriate, to be broadcast by way of line 21 of the vertical blanking interval, or by way of comparable successor technologies; and

"(2) descriptive video of the visual content of such program, as appropriate.

"SEC. 904. ELIGIBLE TELECOMMUNICATIONS PARTNERSHIPS.

"(a) IN GENERAL.—In order to be eligible for a grant under this title, an eligible telecommunications partnership shall consist of—

"(1) a public agency or corporation established for the purposes of developing and operating telecommunications services to enhance educational opportunities provided by educational institutions, teacher training centers, and other entities, except that any such agency or corporation shall represent the interest of elementary and secondary schools which are eligible for assistance under chapter 1 of title I of the Elementary and Secondary Education Act of 1965; or

"(2) a partnership that will provide telecommunications services and which includes 3 or more of the following entities, at least 1 of which shall be an agency described in subparagraph (A) or (B):

"(A) a local educational agency serving a significant number of elementary and secondary schools that are eligible for assistance under chapter 1 of title 1 of the Elementary and Secondary Education Act of 1965 or elementary and secondary schools operated for Indian chil-

dren by the Department of Interior under section 1005(d) of such Act;

"(B) a State educational agency;

"(C) an institution of higher education or a State higher education agency;

"(D) a teacher training center or academy which—

"(i) provides teacher preservice and in-service training; and

"(ii) receives Federal financial assistance or has been approved by a State agency;

"(E)(i) a public or private entity with experience and expertise in the planning and operation of a telecommunications service, including entities involved in telecommunications through satellite, cable, telephone or computers; or

"(ii) a public broadcasting entity with such experience; or

"(F) a public or private elementary or secondary school.

"(b) SPECIAL RULE.—An eligible telecommunications partnership shall be organized on a statewide or multistate basis.

"SEC. 905. APPLICATIONS.

"(a) APPLICATIONS REQUIRED.—Each eligible telecommunications partnership which desires to receive a grant under section 903 shall submit an application to the Secretary, at such time, in such manner, and containing or accompanied by such information as the Secretary may reasonably require.

"(b) CONTENTS OF THE APPLICATION.—Each application submitted pursuant to subsection (a) shall—

"(1) describe the telecommunications facilities and equipment and technical assistance for which assistance is sought, which may include—

"(A) the design, development, construction, acquisition, maintenance and operation of State or multistate educational telecommunications networks and technology resource centers;

"(B) microwave, fiber optics, cable, and satellite transmission equipment or any combination thereof;

"(C) reception facilities;

"(D) satellite time;

"(E) production facilities;

"(F) other telecommunications equipment capable of serving a wide geographic area;

"(G) the provision of training services to instructors who will be using the facilities and

equipment for which assistance is sought, including training in using such facilities and equipment and training in integrating programs into the classroom curriculum; and

"(H) the development of educational programming for use on a telecommunications network;

"(2) in the case of an application for assistance for instructional programming, describe the types of programming which will be developed to enhance instruction and training and provide assurances that such programming will be designed in consultation with professionals (including classroom teachers) who are experts in the applicable subject matter and grade level;

"(3) demonstrate that the eligible telecommunications partnership has engaged in sufficient survey and analysis of the area to be served to ensure that the services offered by the eligible telecommunications partnership will increase the availability of courses of instruction in mathematics, science, and foreign languages, as well as other subjects to be offered;

"(4) describe the training policies for teachers and other school personnel to be implemented to en-

sure the effective use of telecommunications facilities and equipment for which assistance is sought;

"(5) provide assurances that the financial interest of the United States in the telecommunications facilities and equipment will be protected for the useful life of such facilities and equipment;

"(6) provide assurances that a significant portion of any facilities and equipment, technical assistance, and programming for which assistance is sought for elementary and secondary schools will be made available to schools or local educational agencies which have a high percentage of children eligible to be counted under chapter 1 of title I of the Elementary and Secondary Education Act of 1965;

"(7) describe the manner in which traditionally underserved students, such as students who are disadvantaged, limited-English proficient, disabled, or illiterate, will participate in the benefits of the telecommunications facilities, equipment, technical assistance, and programming assisted under this title;

"(8) provide assurances that the applicant will use the funds provided under this title to supplement and not supplant funds otherwise available for the purposes of this title;

"(9) if any member of the consortia is receiving assistance under section 302 of the Technology for Education Act of 1994, describe how funds received under this title will be coordinated with funds received for educational technology in the classroom under section 302 of such Act;

"(10) describe the activities or services for which assistance is sought, including activities and services such as—

"(A) providing facilities, equipment, training, services, and technical assistance described in paragraphs (1), (2), (4) and (7);

"(B) making programs accessible to individuals with disabilities through mechanisms such as closed captioning and descriptive video services;

"(C) linking networks together, for example, around an issue of national importance, such as national elections;

"(D) sharing curriculum resources between networks and development of program guides which demonstrate cooperative, cross-network listing of programs for specific curriculum areas;

"(E) providing teacher and student support services including classroom and training sup-

port materials which permit student and teacher involvement in the live interactive distance learning telecasts;

"(F) incorporating community resources, such as libraries and museums, into instructional programs;

"(G) providing teacher training to early childhood development and Head Start teachers and staff;

"(H) providing teacher training to vocational education teachers and staff;

"(I) providing teacher training on proposed or established voluntary national content standards in mathematics and science and other disciplines as such standards are developed;

"(J) providing programs for adults at times other than the regular school day in order to maximize the use of telecommunications facilities and equipment; and

"(K) providing parent education programs during and after the regular school day which reinforce the student's course of study and actively involve parents in the learning process; and

"(11) include such additional assurances as the Secretary may reasonably require.

"(c) APPROVAL OF APPLICATION; PRIORITY.—The Secretary, in approving applications under this title, shall give priority to applications which demonstrate that—

"(1) a concentration and quality of mathematics, science, and foreign languages resources which, by their distribution through the eligible telecommunications partnership, will offer significant new educational opportunities to network participants, particularly to traditionally underserved populations and areas with scarce resources and limited access to courses in mathematics, science, and foreign languages;

"(2) the eligible telecommunications partnership has secured the direct cooperation and involvement of public and private educational institutions, State and local government, and industry in planning the network;

"(3) the eligible telecommunications partnership will serve the broadest range of institutions, including in the case of elementary and secondary schools, those elementary and secondary schools having a significant number of students eligible to be counted under chapter 1 of title I of the Elementary and Secondary

Education Act of 1965, programs providing instruction outside of the school setting, institutions of higher education, teacher training centers, research institutes, and private industry;

"(4) a significant number of educational institutions have agreed to participate or will participate in the use of the telecommunications system for which assistance is sought;

"(5) the eligible telecommunications partnership will have substantial academic and teaching capabilities, including the capability of training, retraining, and inservice upgrading of teaching skills and the capability to provide professional development leading to comprehensive effective instructional strategies, outcomes-based curriculum and parenting practices;

"(6) the eligible telecommunications partnership will—

"(A) provide a comprehensive range of courses for educators to teach instructional strategies for students with different skill levels;

"(B) provide training to participating educators in ways to integrate telecommunications courses into existing school curriculum; and

"(C) provide instruction for students, teachers, and parents;

"(7) the eligible telecommunications partnership will serve a multistate area;

"(8) the eligible telecommunications partnership will give priority to the provision of equipment and linkages to isolated areas;

"(9) a telecommunications entity (such as a satellite, cable, telephone, computer, or public or private television stations) will participate in the partnership and will donate equipment or in kind services for telecommunications linkages; and

"(10) the eligible telecommunications partnership will, in providing services with assistance under this title, meet the needs of groups of individuals traditionally excluded from careers in mathematics and science because of discrimination, inaccessibility, or economically disadvantaged backgrounds.

"(d) GEOGRAPHIC DISTRIBUTION.—In approving applications under this title, the Secretary shall assure an equitable geographic distribution of grants under this title.

"SEC. 906. LEADERSHIP AND EVALUATION ACTIVITIES.

"(a) RESERVATION.—From the amount appropriated pursuant to the authority of section 903(c)(1) in each fiscal year, the Secretary may reserve not more than 5 percent of such amount for national leadership, evaluation, and peer review activities.

"(b) METHOD OF FUNDING.—The Secretary may fund the activities described in subsection (a) directly or through grants, contracts, and cooperative agreements.

"(c) USES OF FUNDS.—

"(1) LEADERSHIP.—Funds reserved for leadership activities under subsection (a) may be used for—

"(A) disseminating information, including lists and descriptions of services available from recipients; and

"(B) other activities designed to enhance the quality of distance learning activities nationwide.

"(2) EVALUATION.—Funds reserved for evaluation activities under subsection (a) may be used to conduct independent evaluations of the activities assisted under this title and of distance learning in general, including—

"(A) analyses of distance learning efforts, including such efforts that are assisted under this title and such efforts that are not assisted under this title; and

"(B) comparisons of the effects, including student outcomes, of different technologies in distance learning efforts.

"(3) PEER REVIEW.—Funds reserved for peer review activities under subsection (a) may be used for peer review of—

"(A) applications for grants under this title; and

"(B) activities assisted under this title.

"SEC. 907. ADMINISTRATIVE PROVISIONS.

"(a) CONTINUING ELIGIBILITY.—

"(1) IN GENERAL.—In order to be eligible to receive a grant under this title for a second 5-year grant period an eligible telecommunications partnership shall demonstrate in the application submitted pursuant to section 905 that such partnership will—

"(A) continue to provide services in the subject areas and geographic areas assisted with funds received under this title for the previous 5-year grant period; and

"(B) use all grant funds received under this title for the second 5-year grant period to provide expanded services by—

"(i) increasing the number of students, schools or school districts served by the courses of instruction assisted under this title in the previous fiscal year;

"(ii) providing new courses of instruction; and

"(iii) serving new populations of underserved individuals, such as children or adults who are disadvantaged, have limited-English proficiency, are disabled, are illiterate, or lack high school diplomas or their equivalent.

"(2) SPECIAL RULES.—Grant funds received pursuant to the application of paragraph (1) shall be used to supplement and not supplant services provided by the recipient under this title in the previous fiscal year.

"(b) FEDERAL ACTIVITIES.—The Secretary may assist grant recipients under this title in acquiring satellite time, where appropriate, as economically as possible.

"SEC. 908. OTHER ASSISTANCE.

"(a) SPECIAL STATEWIDE NETWORK.—

"(1) IN GENERAL.—The Secretary, through the Office of Educational Technology, may provide assistance to a statewide telecommunications network under this subsection if such network—

"(A) provides 2-way full motion interactive video and audio communications;

"(B) links together public colleges and universities and secondary schools throughout the State; and

"(C) meets any other requirements determined appropriate by the Secretary.

"(2) STATE CONTRIBUTION.—A statewide telecommunications network assisted under paragraph (1) shall contribute, either directly or through private contributions, non-Federal funds equal to not less than 50 percent of the cost of such network.

"(b) SPECIAL LOCAL NETWORK.—

"(1) IN GENERAL.—The Secretary may provide assistance, on a competitive basis, to a local educational agency or consortium thereof to enable such agency or consortium to establish a high technology demonstration program.

"(2) PROGRAM REQUIREMENTS.—A high technology demonstration program assisted under paragraph (1) shall—

"(A) include 2-way full motion interactive video, audio and text communications;

"(B) link together elementary and secondary schools, colleges, and universities;

"(C) provide parent participation and family programs;

"(D) include a staff development program; and

"(E) have a significant contribution and participation from business and industry.

"(3) SPECIAL RULE.—Each high technology demonstration program assisted under paragraph (1) shall be of sufficient size and scope to have an effect on meeting the National Education Goals.

"(4) MATCHING REQUIREMENT.—A local educational agency or consortium receiving a grant under paragraph (1) shall provide, either directly or through private contributions, non-Federal matching funds equal to not less than 50 percent of the amount of the grant.

"SEC. 909. DEFINITIONS.

"As used in this title—

"(1) the term 'educational institution' means an institution of higher education, a local educational agency, or a State educational agency;

"(2) the term 'institution of higher education' has the same meaning given that term by section 1201 of the Higher Education Act of 1965;

"(3) the term 'local educational agency' has the same meaning given that term by section 1471 of the Elementary and Secondary Education Act of 1965;

''(4) the term 'instructional programming' means courses of instruction, training courses, and resources used in such instruction and training, which have been prepared in audio and visual form on tape, disc, film, live, and presented by means of telecommunications devices;

''(5) the term 'public broadcasting entity' has the same meaning given that term by section 397 of the Communications Act of 1934;

''(6) the term 'Secretary' means the Secretary of Education;

''(7) the term 'State educational agency' has the same meaning given that term under section 1471 of the Elementary and Secondary Education Act of 1965; and

''(8) the term 'State' means each of the several States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the Virgin Islands, the Republic of the Marshall Islands, the Federated States of Micronesia, the Republic of Palau, and the Commonwealth of the Northern Mariana Islands.''.

TITLE V—EDUCATIONAL APPLICATIONS OF ADVANCED TECHNOLOGIES AND NETWORKS

SEC. 501. STATEMENT OF PURPOSE.

It is the purpose of this title to—

(1) provide direction and support for the conduct of research on advanced educational technologies;

(2) provide support for long-term comprehensive educational applications of advanced high performance computer and communication technologies and video technologies in support of the core subjects of the National Education Goals;

(3) ensure that high performance computing and telecommunications networks, including information highways, are developed with due consideration to the needs of elementary and secondary education, facilitate educational uses, and provide access to classrooms and libraries in elementary and secondary schools, in order to improve student learning; and

(4) assess the effectiveness of technology in education programs.

SEC. 502. RESEARCH ON EDUCATIONAL APPLICATIONS OF ADVANCED TECHNOLOGIES.

(a) GENERAL AUTHORITY.—The Secretary, consistent with the overall national technology policy established by the President, and in cooperation with other Federal departments and agencies, is authorized to support research on educational applications of advanced learning technologies.

(b) GRANTS AUTHORIZED.—The Secretary, through the Office of Educational Technology, shall award grants to or enter into contracts for research projects intended to develop educational applications of advanced technologies.

(c) APPLICATION.—Each entity desiring assistance under this section shall submit to the Secretary an application at such time, in such manner and accompanied by such information as the Secretary may reasonably require. Each such application shall—

(1) define clearly the scope and content of the subject matter of the research and the relevance of the advanced technology to such content;

(2) describe the potential market for both the hardware and software developed under this section; and

(3) assess the applications of the advanced technology in a way that will validate the technology's impact on student learning and achievement.

(d) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $20,000,000 for fiscal year 1995, and such sums as may be necessary for each of the 4 succeeding fiscal years, to carry out this section.

SEC. 503. HIGH PERFORMANCE EDUCATIONAL COMPUTING AND TELECOMMUNICATIONS NETWORKS.

(a) AUTHORITY.—

(1) IN GENERAL.—(A) The Secretary, consistent with the overall national technology policy established by the President, and in cooperation with other Federal departments and agencies, shall support the development of an electronic network for the dissemination of educational information throughout the United States, including information about effective technology-enhanced programs, resources and services.

(B) In carrying out subparagraph (A) the Secretary shall—

(i) to the extent possible, coordinate activities assisted under this section with other dissemination activities assisted by the Department of Education in order to—

(I) avoid duplication; and

(II) utilize the existing resources of the Department of Education;

(ii) consult with educators, State and local educational agencies, telecommunications providers, and other appropriate education entities throughout the United States to determine information requirements and policies for the effective dissemination of information;

(iii) provide access to the existing Department of Energy FEDIX/MOLIS Information System regarding information about excess equipment (computers and supporting materials) within the Federal Government that are available for transfer to elementary and secondary schools; and

(iv) make use of existing networks or developing networks, to the extent possible.

(2) REQUIREMENTS; SPECIFICATIONS; AND PROTOTYPE OPERATIONS.—The Secretary is authorized to—

(A) identify educational high performance computing and telecommunications network requirements;

(B) develop specifications for the implementation of such requirements within any national telecommunications network;

(C) establish prototype operations on existing networks to validate and further develop the educational specifications which will facilitate the use of such networks by kindergarten through 12th grade students, teachers, librarians, administrators, and parents;

(D) represent the needs and interests of elementary and secondary schools in the Federal planning and development of a national information infrastructure; and

(E) identify policy issues, such as communication rate structures and intellectual property rights, that impact upon the ability of the public schools to make effective use of the emerging information highways, and make recommendations to the Secretary and the Congress regarding such issues.

(b) TYPES OF GRANTS.—The Secretary, through the Office of Educational Technology, shall award the following types of grants:

(1) REQUIREMENTS GRANTS.—The Secretary shall solicit proposals for and award grants to 1 or more entities for the identification of educational high performance computing and telecommunications net-

work requirements. The solicitation shall request proposals to—

(A) identify and describe existing and planned educational high performance computing and telecommunications network efforts;

(B) identify potential uses of such networks in kindergarten through 12th grade education by schools throughout the United States;

(C) assess impediments to the development of such networks in kindergarten through 12th grade education, such as (i) technological impediments, (ii) availability of technology-enhanced curriculum, instruction, and administrative support resources and services in schools, and (iii) parent, student, teacher and administrator attitudes toward technology-enhanced education;

(D) assess the anticipated costs and benefits to be derived from such network access in kindergarten through 12th grade education and recommend priorities for development of such network; and

(E) identify the range of possible educational applications of, and potential sources of funding for, both networks and information re-

sources and databases that exist or are being developed by other Federal departments or agencies.

(2) SPECIFICATIONS GRANTS.—The Secretary shall solicit proposals for and award grants to 1 or more entities for the design and development of educational specifications which may be used to ensure educational access to any national educational high performance computing and telecommunications network. The solicitation shall request proposals to—

(A) incorporate—

(i) the findings of the grant recipients under paragraph (1); and

(ii) the priorities recommended for such networks by the Secretary consistent with the overall national technology policy established by the President;

(B) provide for design alternatives and specifications that address—

(i) linkage of schools and communities with each other, with central resource centers, and with Federal and State agencies over existing or planned telecommunications networks;

(ii) uses of alternative connectivity modes, such as fiber optics, satellites, and land-based broadcasting;

(iii) integrated uses of two-way interactive voice, video, and data communications;

(iv) uses of interactive multimedia;

(v) system capacity, such as maximum telecommunications traffic in a variety of use modes;

(vi) availability of needed technologies;

(vii) availability of support services; and

(viii) assessment of the impact of proposed educational access specifications on existing or planned telecommunications networks; and

(C) provide comprehensive specifications which will ensure educational access to any national educational high performance computing and telecommunications network as the primary deliverable product of the specifications grants described in this paragraph.

(3) PROTOTYPE DEVELOPMENT GRANTS.—The Secretary shall solicit proposals for and award grants

to 1 or more entities for prototype operations on existing networks in order to validate and further develop the educational specifications which will facilitate use of existing or planned educational high performance communicating and telecommunications networks by kindergarten through 12th grade students, teachers, librarians, administrators, and parents. The solicitation shall request proposals to—

(A) incorporate the design limits of the comprehensive educational high performance computing and telecommunications network specifications developed by grant recipients under paragraph (2);

(B) support prototype operations for at least 1 year in a minimum of 5 test sites which are selected to represent a variety of economic, social, urban and rural settings;

(C) provide for inservice training and technical assistance during the period of prototype operations;

(D) provide provisions for the identification and correction of operational problems during the period of prototype operations (including design flaws);

(E) include a comprehensive evaluation of all aspects of the prototype, including—

(i) design flaws;

(ii) training requirements, including resources and strategies for initial and ongoing training;

(iii) technical support requirements;

(iv) financing constraints;

(v) availability and utility of information resources and services accessed during the prototype operations period;

(vi) factors which enhanced or impeded prototype operations; and

(vii) an overall assessment of the impact of such technology on the educational process; and

(F) provide recommended revisions of the Secretary's educational high performance computing and telecommunications network specifications based on findings of the comprehensive evaluation of prototype operations.

(c) TIMELINE.—The Secretary, through the Office of Educational Technology, shall award grants under this section as follows:

(1) REQUIREMENT GRANTS.—The Secretary shall award requirement grants under subsection (c)(1) within 6 months of the date of enactment of this Act.

(2) DEVELOPMENT OF DESIGN SPECIFICATIONS.—The Secretary shall award grants under subsection (c)(2) within 18 months of the date of enactment of this Act.

(3) PROTOTYPE OPERATIONS.—The Secretary shall award grants under subsection (c)(3) within 30 months of the date of enactment of this Act.

(d) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated $7,500,000 for fiscal year 1995, $7,500,000 for fiscal year 1996, and $10,000,000 for fiscal year 1997, to carry out this section.

TITLE VI—MISCELLANEOUS

SEC. 601. STUDY OF SYSTEMIC FUNDING ALTERNATIVES.

From amounts appropriated in any fiscal year pursuant to the authority of section 231(d) of the Goals 2000: Educate America Act, the Secretary, through the Office of Educational Technology, shall conduct a study to evaluate, and report to the Congress on, the feasibility of several alternative models for providing sustained and adequate funding for schools throughout the United States so that such schools are able to acquire and maintain technology-enhanced curriculum, instruction, and administrative sup-

port resources and services. Such report shall be submitted to the Congress not later than 1 year after the date of enactment of this Act.

SEC. 602. PARTICIPATION OF PRIVATE SCHOOL CHILDREN.

(a) PARTICIPATION OF PRIVATE SCHOOL CHILDREN.—To the extent consistent with the number of children who are enrolled in private nonprofit elementary or secondary schools located in a geographic area served by an entity receiving assistance under this Act, such entity shall, after consultation with appropriate private school representatives, make provision for including services and arrangements for the benefit of such children and teachers, administrators, and other school staff serving such children as will assure the equitable participation of such individuals in the purposes and benefits of this Act.

(b) WAIVER.—If by reason of any provision of State law an entity receiving assistance under this Act is prohibited from providing for the participation of children and teachers, administrators, and other school staff serving such children from private nonprofit schools as required by subsection (a), or if the Secretary determines that such entity has substantially failed or is unwilling to provide for such participation on an equitable basis, the Secretary shall waive such requirements and shall arrange for the provision of services to such individuals.

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