

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. INOUE, 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]

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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.

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

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) **SHORT TITLE.**—This Act may be cited as the
 5 “Technology for Education Act of 1993”.

6 (b) **TABLE OF CONTENTS.**—The table of contents of
 7 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.

1 **SEC. 2. FINDINGS.**

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

4 (1) the use of technology as a tool in the learn-
5 ing process is essential to the development and
6 maintenance of a technologically literate citizenry
7 and internationally competitive work force;

8 (2) technology-enhanced curriculum, instruc-
9 tion, and administrative support resources and serv-
10 ices that support the National Education Goals and
11 any national education standards that may be devel-
12 oped are needed and can be used for the systemic
13 improvement of all aspects of education;

14 (3) the acquisition and use of technology in
15 education throughout the United States has been in-
16 hibited by the absence of Federal leadership, the in-
17 ability of many State and local educational agencies
18 to invest in and support the needed technologies,
19 and the limited availability of appropriate tech-

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

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

8 (5) the acquisition and use of technology-en-
9 hanced curriculum, instruction, and administrative
10 support resources and services by elementary and
11 secondary schools in the United States must be sup-
12 ported by a comprehensive system which includes—

13 (A) national leadership with respect to the
14 need for, and the provision of, appropriate tech-
15 nology-enhanced curriculum, instruction, and
16 administrative programs and services for edu-
17 cational institutions in the United States and
18 the schools of the defense dependents' education
19 system;

20 (B) funding mechanisms which will sup-
21 port development interconnection, implementa-
22 tion, improvement and maintenance of an effec-
23 tive educational technology infrastructure for all
24 learners in the United States;

1 (C) information dissemination networks to
2 facilitate access to information on effective
3 learning programs, assessment and evaluation
4 of such programs, research findings, and sup-
5 porting resources (including instructionally
6 based, technology-enhanced programs, research,
7 and resources) by educators throughout the
8 United States;

9 (D) information regarding curriculum con-
10 tent standards, teacher performance standards,
11 opportunity to learn standards, and assess-
12 ments and standards for integrating technology
13 into curriculum and instruction;

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

19 (F) consortia for the development, produc-
20 tion, distribution, and reuse of technology-en-
21 hanced curriculum, instruction and administra-
22 tive support resources and services with Federal
23 assistance;

1 (G) building upon, and not duplicating, ex-
2 isting telecommunications infrastructure dedi-
3 cated to educational purposes;

4 (H) development and evaluation of new
5 and emerging educational technologies and tele-
6 communications networks; and

7 (I) assessment data regarding state-of-the-
8 art uses of technologies in United States edu-
9 cation upon which businesses, noncommercial
10 telecommunications entities, and governments
11 can rely for decisionmaking about the need for,
12 and provision of, appropriate technologies for
13 education in the United States;

14 (6) educational equalization concerns and school
15 restructuring needs can be addressed through edu-
16 cational telecommunications and technology by offer-
17 ing universal access to high-quality teaching and
18 programs, particularly in urban and rural areas;

19 (7) in an increasingly technological world where
20 technology and telecommunications have become an
21 integral part of many households, the disparity be-
22 tween rich and poor students will become even great-
23 er, and educational policies must address such dis-
24 parity;

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

5 (9) improved professional development for
6 teachers requires constant access to updated re-
7 search in teaching and learning, and telecommuni-
8 cations can be the conduit for ongoing teacher
9 training.

10 **SEC. 3. STATEMENT OF PURPOSE.**

11 It is the purpose of this Act—

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

17 (2) to promote greater equality of educational
18 opportunity and instruction among school districts
19 through the use of technology to improve the aca-
20 demic achievements of all students, in general, and
21 disadvantaged, disabled, and limited-English pro-
22 ficient students, in particular;

23 (3) to improve educational quality and oppor-
24 tunity by expanding and improving technology in the
25 school, classroom, library, and home;

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

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

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

10 (7) to establish a National Commission on
11 Technology in Education to periodically assess na-
12 tional requirements, make recommendations with re-
13 spect to the use of technology and telecommuni-
14 cations in public and private elementary and second-
15 ary education throughout the United States, and ad-
16 vise the Congress with respect to funding priorities
17 and needed policies; and

18 (8) to establish within the Department of Edu-
19 cation, a high level office with primary responsibility
20 for—

21 (A) providing national leadership for uni-
22 versal access to effective uses of telecommuni-
23 cations and educational technologies for teach-
24 ing and learning;

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

4 (C) establishing technical standards and
5 guidelines for advanced technologies, including
6 software as well as hardware, and instructional
7 software as well as software for operating sys-
8 tems and communications;

9 (D) establishing funding mechanisms
10 which will support the development and mainte-
11 nance of an effective educational technology in-
12 frastructure for all learners in the United
13 States;

14 (E) providing for sustained teacher, ad-
15 ministrator and other school personnel edu-
16 cation and support for using technologies;

17 (F) supporting development, production,
18 distribution, and reuse of information resources
19 and strategies;

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

22 (H) stimulating private and public partner-
23 ships;

24 (I) stimulating partnerships between—

1 (i) noncommercial telecommunications
2 entities; and

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

5 (J) stimulating private sector investment
6 in the development, production, and distribution
7 of technology-enhanced curriculum, instruction,
8 and administrative support resources and serv-
9 ices; and

10 (K) developing and administering a com-
11 prehensive system of information dissemination,
12 technical assistance, training, research, and as-
13 sessment activities which will enable all schools
14 to effectively utilize appropriate technology-en-
15 hanced curriculum, instruction, and administra-
16 tive support resources and services.

17 **SEC. 4. DEFINITIONS.**

18 (a) **IN GENERAL.**—The terms used in this Act, unless
19 otherwise specified, shall have the same meaning given to
20 such terms by section 1471 of the Elementary and Sec-
21 ondary Education Act of 1965.

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

24 (1) the term “Assistant Secretary” means the
25 Assistant Secretary for Educational Technology;

1 (2) the term “Office” means the Office of Edu-
2 cational Technology;

3 (3) the term “noncommercial telecommuni-
4 cations entity” has the same meaning given to such
5 term by section 397(7) of the Communications Act
6 of 1934; and

7 (4) the term “technology” includes closed cir-
8 cuit television systems, educational television and
9 radio broadcasting, cable television, satellite, copper
10 and fiber optic transmission, computer, video and
11 audio laser and CD ROM discs, video and audio
12 tapes or other technologies.

13 **TITLE I—LEADERSHIP FOR**
14 **TECHNOLOGY IN EDUCATION**

15 **SEC. 101. OFFICE OF EDUCATIONAL TECHNOLOGY.**

16 (a) AMENDMENT TO THE DEPARTMENT OF EDU-
17 CATION ORGANIZATION ACT.—

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

21 (i) in subparagraph (F), by striking “and”
22 after the semicolon;

23 (ii) by redesignating subparagraph (G) as
24 subparagraph (H); and

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

3 “(G) an Assistant Secretary for Edu-
4 cational Technology; and”.

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

8 “Assistant Secretary for Educational Technology”.

9 (2) OFFICE OF EDUCATIONAL TECHNOLOGY.—

10 Title II of the Department of Education Organiza-
11 tion Act (20 U.S.C. 3411 et seq.) is amended by
12 adding at the end the following new section:

13 “OFFICE OF EDUCATIONAL TECHNOLOGY

14 “SEC. 216. (a) There shall be in the Department of
15 Education an Office of Educational Technology, to be ad-
16 ministered by the Assistant Secretary for Educational
17 Technology. Such Office shall be established in accordance
18 with section 405A of the General Education Provisions
19 Act.

20 “(b) The Assistant Secretary for Educational Tech-
21 nology shall have demonstrated expertise and experience
22 in the application of a broad range of technologies for in-
23 struction and educational management, and in planning
24 and formulating policy pertaining to technology use, devel-
25 opment and application at several levels in the education

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

3 ~~“(c) There shall be in the Office of Educational Tech-~~
4 ~~nology a Division of Elementary and Secondary School Li-~~
5 ~~brary Media Services, to be administered by the Director~~
6 ~~of the Division. Such Division shall be established in ac-~~
7 ~~cordance with section 405B of the General Education Pro-~~
8 ~~visions Act.”.~~

9 (b) AMENDMENT TO THE GENERAL EDUCATION
10 PROVISIONS ACT.—Part A of the General Education Pro-
11 visions Act (20 U.S.C. 1221e et seq.) is amended by in-
12 serting after section 405 the following new section:

13 **“SEC. 405A. OFFICE OF EDUCATIONAL TECHNOLOGY.**

14 ~~“(a) ESTABLISHMENT.—~~

15 ~~“(1) OFFICE ESTABLISHED.—The Secretary~~
16 shall establish an Office of Educational Technology
17 (hereafter in this section referred to as the ‘Office’)
18 within 90 days after the date of enactment of the
19 Technology for Education Act of 1993. The Office
20 shall be the principal technology unit in the Depart-
21 ment of Education and shall be responsible for as-
22 sisting schools in obtaining and utilizing technology.

23 ~~“(2) PERSONNEL.—~~

24 ~~“(A) IN GENERAL.—The Assistant Sec-~~
25 retary for Educational Technology (hereafter in

1 this section referred to as the “Assistant Sec-
2 retary”) may appoint personnel in accordance
3 with title 5 of the United States Code, and may
4 compensate such personnel in accordance with
5 the General Schedule described in section 5332
6 of title 5, United States Code.

7 “(B) EXPERTS AND CONSULTANTS.—The
8 Assistant Secretary may procure temporary and
9 intermittent services under section 3019(b) of
10 title 5, United States Code, if the individual
11 performing such services, by virtue of such indi-
12 vidual’s education or training and experience, is
13 eminently qualified to assist the Office in per-
14 forming the functions of the Office.

15 “(3) ADMINISTRATIVE SUPPORT.—To the
16 greatest extent possible, the Assistant Secretary
17 shall utilize existing administrative support services
18 of the Department of Education in accomplishing
19 the functions of the Office. However, the Assistant
20 Secretary is authorized to obtain any or all requisite
21 administrative support services required by the Of-
22 fice through competitive contracting with a private
23 sector enterprise or through noncompetitive, reim-
24 bursable service agreements with any other Federal
25 department, agency or governmental entity. The As-

1 Assistant Secretary shall have sole responsibility for
2 determining whether any or all of the administrative
3 support requirements of the Office may be more effi-
4 ciently provided by existing administrative support
5 services within the Department of Education, by a
6 private sector enterprise, or by a governmental en-
7 tity outside the Department of Education.

8 “(4) REPORTING REORGANIZATIONS.—Any
9 change in the functions or reorganization of the Of-
10 fice as established by this Act shall be reported to
11 the Congress prior to implementation of the change
12 or reorganization.

13 “(b) FUNCTIONS OF THE OFFICE.—The Assistant
14 Secretary, through the Office, shall—

15 “(1) provide national leadership for policy de-
16 velopment and coordinate technology-related edu-
17 cation activities within the Department of Edu-
18 cation;

19 “(2) be an advisor within the Department of
20 Education for the design, coordination, and evalua-
21 tion of any technology-enhanced network or system
22 used for the transfer and dissemination of informa-
23 tion through activities and programs such as the
24 education resources information clearinghouses, the
25 National Diffusion Network, the regional mathe-

1 matics and science education consortia assisted
2 under subpart 2 of part A of title II of the Elemen-
3 tary and Secondary Education Act of 1965, and the
4 National Clearinghouse for Science, Mathematics
5 and Technology Education;

6 ~~“(3) administer a comprehensive school tech-~~
7 ~~nology support system of grants, loans, and alter-~~
8 ~~native systemic funding sources to encourage—~~

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

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

16 ~~“(C) the acquisition, development and~~
17 ~~maintenance of technology-enhanced curricu-~~
18 ~~lum, instruction, and administrative support re-~~
19 ~~sources and services for school classrooms and~~
20 ~~administrative offices, which resources and~~
21 ~~services shall build upon existing infrastructure~~
22 ~~in order to avoid duplication;~~

23 ~~“(4) consult, cooperate and coordinate edu-~~
24 ~~cational technology programs with analogous pro-~~
25 ~~grams of other Federal departments, agencies and~~

1 other entities, including the National Science Foun-
2 dation, the Federal Coordinating Council for Science
3 Engineering and Technology, the Corporation for
4 Public Broadcasting, and Public Telecommuni-
5 cations Facilities Program and, whenever possible,
6 initiate agreements for joint funding of such edu-
7 cational technology and analogous programs;

8 “(5) support the research, design, development,
9 production, distribution, reuse and evaluation by
10 public or private agencies, nonprofit organizations,
11 colleges and universities, or individuals, or by com-
12 binations thereof, of new technology-enhanced cur-
13 riculum, instruction, and administrative support re-
14 sources and services which hold promise for improv-
15 ing the effectiveness of education in the United
16 States;

17 “(6) make recommendations to all Federal de-
18 partments and agencies for wider application of the
19 use of technology in federally supported education
20 programs within such departments and agencies;

21 “(7) support and encourage cooperative efforts
22 to resolve issues which have served as impediments
23 to the use of educational technologies, such as State
24 requirements for teacher certification, incompati-
25 bility of various technological systems, and lack of

1 access to telecommunications linkages in the class-
2 room;

3 ~~“(8) establish and administer alternative mech-~~
4 ~~anisms for financing the planning, implementation,~~
5 ~~and maintenance of a telecommunications and edu-~~
6 ~~ational technology infrastructure to serve education~~
7 ~~at all levels;~~

8 ~~“(9) regularly convene meetings of educators,~~
9 ~~policy makers, business leaders and telecommuni-~~
10 ~~cations and educational technology vendors, and rep-~~
11 ~~resentatives of noncommercial telecommunications~~
12 ~~entities and service providers in order to—~~

13 ~~“(A) support appropriate public and pri-~~
14 ~~ivate partnerships for more effective cooperation~~
15 ~~leading to improvements in the design and de-~~
16 ~~velopment of new technologies for application in~~
17 ~~education; and~~

18 ~~“(B) benefit the effective integration of~~
19 ~~technologies to enhance and support teaching~~
20 ~~and learning;~~

21 ~~“(10) support research on advanced learning~~
22 ~~technologies in cooperation with other Federal de-~~
23 ~~partments, agencies, and programs, including the~~
24 ~~Advanced Research Projects Agency (ARPA) of the~~
25 ~~Department of Defense, the Advanced Technology~~

1 Program of the Department of Commerce, the Cor-
2 poration for Public Broadcasting, the Department of
3 Labor, the National Science Foundation, the De-
4 partment of Energy, the National Aeronautics and
5 Space Administration, and the Department of De-
6 fense;

7 “(11) identify and analyze Federal and State
8 policies’ impact on present and future uses of tech-
9 nologies in education;

10 “(12) support and encourage cooperative efforts
11 to develop standards and guidelines for the use of
12 technology in Federal, State and local education pro-
13 grams;

14 “(13) promote collaboration among government,
15 business, educational organizations, and other non-
16 profit organizations and noncommercial tele-
17 communications entities, to expand and improve the
18 use of technology in education;

19 “(14) support a variety of opportunities for
20 teacher, librarian, administrator and other school
21 personnel education and inservice training regarding
22 the effective uses of educational technologies through
23 institutions of higher education, regional educational
24 laboratories and centers, State and local educational
25 agencies, museums, science centers, noncommercial

1 telecommunications entities or other institutions con-
2 ducting training;

3 “(15) annually evaluate the level of implemen-
4 tation of, and the impact on teaching and learning
5 resulting from, programs, projects and activities for
6 which the Office is responsible;

7 “(16) support inclusion of technology applica-
8 tions, as appropriate, in the development of National
9 Education Goals, reform initiatives, and assessment
10 systems;

11 “(17) develop criteria that identify programs,
12 projects, and practices that effectively use tech-
13 nologies for national dissemination;

14 “(18) develop, and update periodically, in co-
15 operation with other Federal, State and regional
16 agencies, and noncommercial telecommunications en-
17 tities, as appropriate, a long-range strategic plan for
18 implementing telecommunications and educational
19 technologies in all schools;

20 “(19) assess and determine school technology
21 needs such as development, training and equipment
22 linkages;

23 “(20) review factors such as cost, dissemina-
24 tion, audience, accessibility, and usage in determin-
25 ing the maximum value of various technologies;

1 “(21) develop and administer special programs
2 for students who are academically disadvantaged,
3 impaired or limited in their use of the English lan-
4 guage, in order to make available affordable infra-
5 structure or appropriate methods of instruction that
6 will improve such students’ ability to attain a high
7 level of academic achievement;

8 “(22) coordinate Federal, State, and local tele-
9 communications franchising authorities for purposes
10 of favorable rate regulations governing educational
11 uses of telecommunications;

12 “(23) provide leadership for the development of
13 universal connections for educational and informa-
14 tion providers to national high performance edu-
15 cational computing and communications networks,
16 including the National Research Education Network
17 and Telstar 401, that will allow educational profes-
18 sionals, students, parents, and the general public to
19 access resources available through such networks;

20 “(24) support and coordinate the activities of
21 the regional educational technology assistance con-
22 sortia described in section 304 of the Technology for
23 Education Act of 1993 to enable schools to utilize
24 technology-enhanced curriculum, instruction, and ad-
25 ministrative support resources and services; and

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

4 ~~(b)~~ MEMBERSHIP.—

5 ~~(1)~~ APPOINTMENT OF MEMBERS.—The Presi-
6 dent shall appoint 15 members to the Commission,
7 of which—

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

10 ~~(B)~~ three shall be appointed because of
11 their expertise in the governance or supervision
12 of school district operations, in administering
13 State- or district-wide educational technology
14 programs, in administering elementary or sec-
15 ondary schools, or in the development of tech-
16 nology-enhanced curriculum, instruction, or ad-
17 ministrative support programs or services;

18 ~~(C)~~ four shall be appointed because of
19 their expertise in providing instructional serv-
20 ices in university, community college, secondary
21 school, elementary school, preschool, and adult
22 and continuing education environments;

23 ~~(D)~~ two shall be—

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

1 (ii) a State or local school board mem-
2 ber; and

3 ~~(E)~~ three shall be appointed because of
4 their expertise in the telecommunications indus-
5 try (including noncommercial communications),
6 the computer hardware or software industry, or
7 the educational technology resources and serv-
8 ices industry.

9 ~~(2)~~ TERMS.—

10 ~~(A)~~ IN GENERAL.—Except as provided in
11 subparagraph ~~(B)~~, members of the Commission
12 shall be appointed for terms of 4 years. Mem-
13 bers of the Commission may be reappointed.

14 ~~(B)~~ STAGGERED TERMS.—As designated
15 by the President at the time of initial appoint-
16 ments under paragraph ~~(1)~~, the terms of 5
17 members shall expire at the end of 3 years, the
18 terms of 5 members shall expire at the end of
19 4 years, and the terms of 5 members shall ex-
20 pire at the end of 5 years.

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

24 ~~(4)~~ DIVERSITY.—The President shall make ap-
25 pointments to the Commission by providing due con-

1 sideration to gender and ethnicity in order to obtain
2 members who are broadly representative of the eth-
3 nic diversity of the United States.

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

7 (A) the Department of Education; or

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

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

13 (7) SELECTION OF CHAIRPERSON.—The mem-
14 bers of the Commission shall elect a Chairperson
15 from among their membership by majority vote of
16 the members of the Commission. The Chairperson
17 shall serve a term of not more than 4 years.

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

1 Commission, as authorized by the Chairperson of the
2 Commission.

3 ~~(c) PERSONNEL.—~~

4 (1) ADMINISTRATIVE AND CLERICAL SUP-
5 PORT.—The Commission shall receive administrative
6 support services from the Office.

7 (2) EXECUTIVE SECRETARY.—The Assistant
8 Secretary shall serve as the Executive Secretary of
9 the Commission in order to facilitate accomplish-
10 ment of the Commission's functions.

11 ~~(d) MEETINGS OF THE COMMISSION.—~~

12 (1) APPLICABILITY OF THE GOVERNMENT IN
13 THE SUNSHINE ACT.—The provisions of the Govern-
14 ment in the Sunshine Act (5 U.S.C. 552b) shall
15 apply to meetings of the Commission.

16 (2) MINIMUM NUMBER OF MEETINGS; FIRST
17 MEETING.—The Commission shall meet at least
18 twice a year, with the first meeting being held within
19 120 days of the date of enactment of this Act.

20 (3) FREQUENCY OF MEETINGS.—With the ap-
21 proval of the Chairperson of the Commission and
22 subject to the availability of funds appropriated pur-
23 suant to the authority of subsection (f), members of
24 the Commission may meet as often as the Commis-

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

3 (4) QUORUM.—A majority of the Commission
4 shall constitute a quorum for the purpose of con-
5 ducting the business of the Commission.

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

8 (1) IDENTIFY NATIONAL EDUCATIONAL TECH-
9 NOLOGY REQUIREMENTS.—

10 (A) TECHNOLOGY INITIATIVES.—The
11 Commission shall review Federal, State, and
12 local educational technology initiatives, assess
13 their effectiveness and potential for the im-
14 provement of education, and make rec-
15 ommendations to the Secretary and the Con-
16 gress with respect to what technologies are
17 needed and should be made available to learners
18 in the United States.

19 (B) NEEDS.—The Commission shall review
20 the needs of schools and educational institu-
21 tions for technology, and make Federal policy
22 recommendations for meeting such needs. Such
23 review shall include factors such as equity, ac-
24 cessibility, how many children are reached, cost,
25 quality and demonstrated effectiveness.

1 (2) PROVIDE RECOMMENDATIONS WITH RE-
2 SPECT TO DEPARTMENTAL TECHNOLOGY IN EDU-
3 CATION PROGRAMS.—The Commission shall review
4 and make recommendations to the Secretary and the
5 Assistant Secretary with respect to the need for, op-
6 eration of, effectiveness of, and support and re-
7 sources available for, educational technology pro-
8 grams and policies throughout the Department of
9 Education and within the Office.

10 (3) INDUSTRY, TECHNOLOGY AND EDU-
11 CATIONAL CONSORTIA.—The Commission shall en-
12 courage the development of consortia consisting of a
13 representative of the telecommunications and tech-
14 nology industries, and the education community, in
15 order to promote the collaborative development and
16 implementation of educational technologies, projects,
17 and practices that allow for the sharing of public
18 and private resources to enhance school achievement.

19 (4) MAKE RECOMMENDATIONS WITH RESPECT
20 TO THE COORDINATION OF FEDERAL PROGRAMS.—
21 The Commission shall review support and resources
22 available for educational technologies used in Fed-
23 eral programs operating on the date of enactment of
24 this Act and make recommendations to the Sec-
25 retary and the Congress with respect to the coordi-

1 nation and resource level required to achieve the
2 most effective Federal support for educational tech-
3 nology needs.

4 (5) DEVELOP POLICY RECOMMENDATIONS.—

5 The Commission shall consult with persons having
6 an interest in the uses of technology to support
7 teaching and learning in order to ensure that the in-
8 terests and concerns of all citizens are represented
9 in national policies for the development, implementa-
10 tion and evaluation of the educational technology in-
11 frastructure of the United States.

12 (6) COMMITTEE OF EXPERTS.—The Commis-
13 sion shall appoint a committee of experts represent-
14 ing the telecommunication, computer hardware and
15 software industries, educational software developers,
16 noncommercial telecommunications entities, and the
17 elementary and secondary education community to
18 explore the feasibility and desirability of national
19 education guidelines or standards for educational
20 hardware and software. Such committee shall
21 produce a report which, at a minimum, examines—

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

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

4 ~~(C)~~ user interface standards so that teach-
5 ers and students will not have to learn totally
6 new techniques for using new software pack-
7 ages;

8 ~~(D)~~ database interface standards so that
9 students can integrate information from na-
10 tional databases into their work;

11 ~~(E)~~ communication standards such as
12 those for information exchange and video com-
13 pression;

14 ~~(F)~~ interface standards so that educational
15 software and other technology may be inte-
16 grated together in a way that is easy to use and
17 maintain; and

18 ~~(G)~~ standards for collecting data about
19 student performance and achievement to guide
20 individual instructional paths and the refine-
21 ment of curriculum.

22 ~~(6)~~ REPORT.—

23 ~~(A)~~ IN GENERAL.—The Commission shall
24 prepare and submit to the President, the Sec-
25 retary and the Congress a report every 2 years

1 on the need for the development and implemen-
2 tation of instructionally based technologies in
3 educational curriculum throughout the United
4 States. At a minimum, the Commission's report
5 shall include recommendations with respect to
6 the status of the implementation of the provi-
7 sions of this Act.

8 (B) SUBMISSION.—The report described in
9 subparagraph (A) shall be submitted in accord-
10 ance with such subparagraph within 2 years of
11 the date of enactment of this Act and every 2
12 years thereafter.

13 (f) AUTHORIZATION OF APPROPRIATIONS.—

14 (1) SALARIES AND EXPENSES.—There are au-
15 thorized to be appropriated \$1,500,000 for each of
16 the fiscal years 1994 through 1998 for the salaries
17 and expenses of the Commission.

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

1 **TITLE II—SCHOOL TECHNOLOGY**
2 **SUPPORT**

3 **SEC. 201. STATEMENT OF PURPOSES.**

4 It is the purpose of this title to provide Federal as-
5 sistance in the form of loans, grants, and systemic funding
6 alternatives to support the acquisition, training, use and
7 maintenance in elementary and secondary schools of tech-
8 nology-enhanced curriculum, instruction, and school ad-
9 ministration.

10 **SEC. 202. STATE TECHNOLOGY PLANNING GRANTS.**

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

14 (b) GRANTS AUTHORIZED.—

15 (1) IN GENERAL.—The Assistant Secretary
16 shall award grants to State educational agencies,
17 who in consultation with the Governor and other ap-
18 propriate State agencies, shall develop a systemic
19 statewide plan to infuse modern technologies into an
20 educational program to enhance student learning
21 and staff development in support of the National
22 Education Goals and State academic standards.

23 (2) REQUIREMENTS.—Such plan shall—

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

1 tion educational technology infrastructure for
2 all elementary and secondary education institu-
3 tions within the State; and

4 (B) emphasize the participation of schools
5 with a high percentage of disadvantaged stu-
6 dents.

7 (C) CONTENT OF PLANS.—At a minimum, each sys-
8 temic statewide plan described in subsection (b) that is
9 developed in whole or in part, with grant funds under this
10 section, shall—

11 (1) be developed in collaboration with the Gov-
12 ernor, representative of the State legislature, State
13 school boards, other appropriate State agencies, and
14 noncommercial telecommunication entities through a
15 representational process involving input from com-
16 munities throughout the State;

17 (2) identify requirements for infusing modern
18 technologies into the classroom to enhance edu-
19 cational curricula;

20 (3) describe how the application of tele-
21 communications, computer networks, and related ad-
22 vanced technologies in the schools will enhance the
23 curriculum, provide greater access and equity for
24 more students, and help achieve the National Edu-
25 cation Goals;

1 (4) provide for the ongoing training of edu-
2 cational personnel to integrate educational tech-
3 nologies in the classroom and other applications of
4 technology in education;

5 (5) establish a mechanism for statewide dis-
6 semination of exemplary programs and practices;

7 (6) include an estimate of the funding and re-
8 sources needed to develop and maintain the requisite
9 educational technology infrastructure identified in
10 the plan, including the appropriate use of other Fed-
11 eral education funds available to the State or local
12 educational agency;

13 (7) establish a schedule for the development
14 and implementation of the planned educational tech-
15 nology infrastructure;

16 (8) develop a plan for the coordination and dis-
17 tribution of grants under this section, section 204,
18 and section 405B(b)(1)(B) of the General Education
19 Provisions Act;

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

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

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

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

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

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

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

12 ~~(12) describe how State and local educational~~
13 ~~agencies will coordinate and cooperate with business~~
14 ~~and industry, as well as noncommercial tele-~~
15 ~~communications entities to implement standards to~~
16 ~~meet work force training needs;~~

17 ~~(13) describe how the State educational agency~~
18 ~~will promote the purchase of equipment by local~~
19 ~~school districts and schools that, when placed in op-~~
20 ~~eration, will meet the highest level of interoperability~~
21 ~~and open system design among—~~

22 ~~(A) technology hardware and software, ei-~~
23 ~~ther when used on a stand-alone basis or when~~
24 ~~connected together within a local area network~~
25 ~~or a wide area network; and~~

1 (B) schools within the State;

2 (14) will utilize existing telecommunications in-
3 frastructure and technology resources; and

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

6 (d) AMOUNT OF GRANTS.—

7 (1) IN GENERAL.—Except as provided in para-
8 graph (2), the Assistant Secretary shall award
9 grants under this section to each State, in each fis-
10 cal year, in an amount which bears the same rela-
11 tionship to the amount appropriated pursuant to the
12 authority of subsection (c) as the amount such State
13 received under chapter 1 of title I of the Elementary
14 and Secondary Education Act of 1965 in such year
15 bears to the amount received under such chapter by
16 all States in such year.

17 (2) MINIMUM.—No State shall receive a grant
18 under subsection (b) in an amount which is less than
19 \$100,000.

20 (3) STATE MATCHING.—

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

1 (B) WAIVER.—The Secretary may waive
2 the State matching requirement described in
3 subparagraph (A) for good cause, as deter-
4 mined by the Secretary.

5 (e) AUTHORIZATION OF APPROPRIATIONS.—There
6 are authorized to be appropriated \$10,000,000 for the fis-
7 cal year 1994, and such sums as may be necessary for
8 each of the 4 succeeding fiscal years, to carry out this
9 section.

10 **SEC. 203. ELEMENTARY AND SECONDARY SCHOOL LIBRARY**
11 **AND MEDIA SERVICES.**

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

16 **“SEC. 405B. ELEMENTARY AND SECONDARY SCHOOL LI-**
17 **BRARY AND MEDIA SERVICES.**

18 “(a) ESTABLISHMENT.—The Assistant Secretary
19 shall establish a Division of Elementary and Secondary
20 School Library Media Services (hereafter in this section
21 referred to as the ‘Division’) within the Office of Edu-
22 cational Technology within 90 days of enactment of the
23 Technology for Education Act of 1993. Such division shall
24 consist of a Director, who shall have primary responsibility
25 for the daily operation of the Division, and of such staff

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

3 ~~“(b) FUNCTIONS.—~~

4 ~~“(1) IN GENERAL.—The Division shall—~~

5 ~~“(A) provide information and leadership to~~
6 ~~elementary and secondary school library media~~
7 ~~specialists, teachers, and school administrators~~
8 ~~with respect to—~~

9 ~~“(i) the effective operation of library~~
10 ~~media resources;~~

11 ~~“(ii) methods of improving edu-~~
12 ~~cational programs;~~

13 ~~“(iii) training of library media person-~~
14 ~~nel; and~~

15 ~~“(iv) the development of library media~~
16 ~~resources, including resources that will en-~~
17 ~~courage students to acquire skills in other~~
18 ~~languages; and~~

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

21 ~~“(i) elementary and secondary school~~
22 ~~library media center resource development,~~
23 ~~including projects that—~~

24 ~~“(I) enable school library media~~
25 ~~centers to acquire technologically ad-~~

1 vanced information management re-
2 sources;

3 “(II) provide increased student
4 access to library media center re-
5 sources through the use of modern in-
6 formation resource technologies; and

7 “(III) assist in the implementa-
8 tion of distance learning via satellite,
9 microwave, fiber, picture telephones
10 and other visual media;

11 “(ii) elementary and secondary school
12 library media specialist and teacher part-
13 nership for innovative education projects
14 that—

15 “(I) encourage collaboration be-
16 tween elementary and secondary
17 school library media specialists and
18 teachers in order to develop units of
19 instruction that enable students to use
20 a variety of technologically advanced
21 information resources; and

22 “(II) expand students’ informa-
23 tion-gathering abilities and cognitive
24 skills of selection, analysis, evaluation,
25 and application; and

1 ~~“(iii) technology in the classroom~~
2 ~~projects that are linked to a library media~~
3 ~~center in order to—~~

4 ~~“(I) expand the use of computers~~
5 ~~and computer networks in the curricu-~~
6 ~~lum;~~

7 ~~“(II) enable elementary and sec-~~
8 ~~ondary school library media centers to~~
9 ~~access information from computerized~~
10 ~~databases and other technologically~~
11 ~~advanced methods of access to infor-~~
12 ~~mation; and~~

13 ~~“(III) assist in the implementa-~~
14 ~~tion of distance learning via satellite,~~
15 ~~microwave, fiber, picture telephones~~
16 ~~and other visual media.~~

17 ~~“(2) SPECIAL RULE.—In awarding grants~~
18 ~~under paragraph (1)(B) the Assistant Secretary~~
19 ~~shall—~~

20 ~~“(A) award grants to schools with the~~
21 ~~greatest need for library materials and services;~~
22 ~~and~~

23 ~~“(B) ensure that such grants are awarded~~
24 ~~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 “(1) \$15,000,000 shall be available in each
2 such fiscal year to carry out subsection (b)(2)(A);

3 “(2) \$15,000,000 shall be available in each
4 such fiscal year to carry out subsection (b)(2)(B);
5 and

6 “(3) \$15,000,000 shall be available in each
7 such fiscal year to carry out subsection (b)(2)(C).”.

8 **SEC. 204. SCHOOL TECHNOLOGY RESOURCE GRANTS AND**
9 **LOANS.**

10 (a) IN GENERAL.—

11 (1) IN GENERAL.—The Assistant Secretary
12 shall award grants to State educational agencies
13 having a plan approved under section 202 in order
14 to enable such agencies to provide assistance to local
15 educational agencies and schools having highest per-
16 centages of children in poverty and showing the
17 greatest need for technology to enable such local
18 educational agencies and schools to purchase quality
19 technology related equipment, technology-enhanced
20 curriculum, instruction, and administrative support
21 resources and services that improve the instructional
22 programs in schools.

23 (2) AMOUNT.—(A) Except as provided in sub-
24 paragraph (B), the Secretary shall award grants
25 under this section to each State educational agency

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

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

10 (3) LIMITATION ON STATE COSTS.—Not more
11 than 5 percent of grant funds awarded to a State
12 educational agency under this section may be used
13 by the State or State educational agency for admin-
14 istrative costs or technical assistance.

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

19 (c) LOCAL USES OF GRANT FUNDS.—Each local edu-
20 cational agency or school receiving assistance under this
21 section may use such assistance—

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

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

5 (2) for staff development in the integration of
6 quality instructional educational technologies into
7 school curriculum and long-term planning for imple-
8 menting educational technologies;

9 (3) to acquire connectivity with wide area net-
10 works, such as the INTERNET, for purposes of
11 accessing information and educational programming
12 sources outside the local educational agency or
13 school;

14 (4) for necessary site preparation for the instal-
15 lation of technology-enhanced curriculum, instruc-
16 tion, and administrative support resources and serv-
17 ices, except that such acquisitions may not exceed 25
18 percent of the amount of the assistance provided
19 under this section;

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

1 ~~(6)~~ to establish partnerships consisting of a rep-
2 resentative of a local educational agency, a college or
3 university, and any other agency the Assistant Sec-
4 retary deems appropriate, for development and im-
5 plementation of preservice education programs to
6 train teachers in the application of instructional-
7 based technologies in the curriculum.

8 ~~(d)~~ SCHOOL PLANS.—Each local educational agency
9 or school desiring assistance under this section shall sub-
10 mit a plan to the State educational agency at such time
11 and in such manner as such agency may prescribe. Such
12 plan shall—

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

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

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

19 ~~(ii)~~ are impacting student achieve-
20 ment; and

21 ~~(B)~~ a description of how the local edu-
22 cational agency or school has involved parents,
23 business leaders and community leaders in the
24 development of such plan;

1 (2) describe how the assistance will be used to
2 further access for both teachers and students to best
3 teaching practices and best curriculum resources
4 that are aligned with any national educational stand-
5 ards that may be developed;

6 (3) describe the type of technologies to be ac-
7 quired, including specific provisions for interoper-
8 ability among components of such technologies;

9 (4) include the projected cost of technologies to
10 be acquired and related expenses needed to imple-
11 ment the plan;

12 (5) include the projected timetable for imple-
13 menting the technologies in schools;

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

18 (7) describe how the acquired instructionally
19 based technologies will help the local educational
20 agency or school achieve equity in curricular offer-
21 ings;

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

1 (9) describe how the instructionally based tech-
2 nologies and resources will support any State and
3 national content and teaching educational standards
4 that may be developed;

5 (10) describe how the local educational agency
6 or school will ensure ongoing, sustained staff devel-
7 opment for teachers and administrators in the local
8 educational agency or school regarding the use of
9 technology in the classroom, and contain a list of the
10 source or sources of ongoing training available to
11 such teachers and administrators, such as State
12 technology offices, intermediate educational support
13 units, regional educational laboratories, or institu-
14 tions of higher education;

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

19 (12) describe how the local educational agency
20 or school will promote the sharing, distribution, and
21 reuse of applications of educational technology that
22 are determined by such agency to be effective in in-
23 dividual schools.

1 (e) ~~TECHNOLOGY LOANS.~~—Subsection (a) of section
 2 751 of the Higher Education Act of 1965 (20 U.S.C.
 3 1132f(a)) is amended—

4 (1) in paragraph (2), by striking “and” after
 5 the semicolon;

6 (2) by redesignating paragraph (3) as para-
 7 graph (4);

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

10 “~~(3)~~ guarantee, insure or reinsure low-interest,
 11 long-term loans to State educational agencies and
 12 local educational agencies in order to enable such
 13 agencies to obtain resources for distance learning,
 14 computer networks and other technology-enhanced
 15 curriculum, instruction, and administrative support
 16 resources and services that are used in the education
 17 process; and”;

18 (4) in paragraph (4) (as redesignated by para-
 19 graph (2)), by striking “and (2)” and inserting “,
 20 (2) and (3)”.

21 **SEC. 205. INFORMATION DISSEMINATION.**

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

1 cational agencies, and schools in the development of sys-
2 temic reform initiatives.

3 **TITLE III—INFORMATION DIS-**
4 **SEMINATION, TECHNOLOGY**
5 **TRAINING AND TECHNICAL**
6 **ASSISTANCE**

7 **SEC. 301. STATEMENT OF PURPOSE.**

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

11 (1) supporting identification and dissemination
12 of information on effective educational programs, re-
13 sources and services throughout the United States,
14 and, more specifically, to promote information dis-
15 semination through electronic means; and

16 (2) developing a coordinated network of edu-
17 cational technology assistance and training provid-
18 ers, such as universities, regional technology centers,
19 museums, science centers, laboratories supported by
20 the Department of Energy, noncommercial tele-
21 communications entities, other nonprofit organiza-
22 tions, and State and local educational agencies to
23 ensure effective utilization of technology-enhanced
24 curriculum, instruction and educational administra-
25 tive support resources and services to improve the

1 instructional programs in schools consistent with ef-
2 forts to achieve the National Education Goals and
3 State academic standards.

4 **SEC. 302. ELECTRONIC DISSEMINATION NETWORK.**

5 The Assistant Secretary, in cooperation with the Fed-
6 eral Communications Commission, the National Science
7 Foundation, the Department of Defense, or any other de-
8 partment or agency of Federal, State and local govern-
9 ments that the Assistant Secretary deems appropriate,
10 shall establish an electronic network for the dissemination
11 of educational information throughout the United States,
12 including information about effective technology-enhanced
13 programs, resources, and services to the extent reasonably
14 possible; the electronic dissemination network should make
15 use of existing networks and networks to be built for other
16 purposes. The electronic dissemination network shall—

17 (1) provide sufficient staffing and other re-
18 sources as may be necessary to ensure the effective
19 operation of the Electronic Dissemination Network;
20 and

21 (2) consult with educators, State and local edu-
22 cational agencies, telecommunications providers, and
23 other stakeholders in the education process through-
24 out the United States to determine information re-

1 requirements and policies for the effective operation of
2 the Electronic Dissemination Network.

3 **SEC. 303. REGIONAL IMPLEMENTATION AND ASSISTANCE.**

4 (a) PURPOSE.—It is the purpose of this section to
5 establish regional educational technology assistance con-
6 sortia to facilitate information dissemination, planning, re-
7 source development, implementation, and evaluation of
8 educational technology applications by States, regional
9 educational organizations, local educational agencies and
10 schools.

11 (b) GRANTS AUTHORIZED.—

12 (1) AUTHORITY.—The Assistant Secretary shall
13 make grants, on a competitive basis, to regional edu-
14 cational technology assistance consortia in accord-
15 ance with the provisions of this section.

16 (2) REQUIREMENTS.—Each consortium receiv-
17 ing a grant under this section shall—

18 (A) serve 1 of the 10 regions of the United
19 States served by a regional educational labora-
20 tory supported pursuant to section
21 405(d)(4)(A)(i) of the General Education Provi-
22 sions Act;

23 (B) consist of a consortium of State edu-
24 cational agencies, nonprofit organizations, or a
25 combination thereof; and

1 (C) in cooperation with State and local
2 education programs, develop a regional plan
3 that addresses staff development, technical as-
4 sistance, information resource dissemination,
5 and program evaluation and reporting needs of
6 the region regarding educational technology.

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

11 (c) FUNCTIONS.—

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

14 (A) collaborate with State and local edu-
15 cation programs in the development of State
16 technology plans and in particular in the devel-
17 opment of strategies for reaching those schools
18 with highest percentages of disadvantaged stu-
19 dents with little or no access to technology in
20 the classroom;

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

1 ware that is suited for a program's particular
2 needs, and compile and share information on
3 creative applications of technology in the class-
4 room;

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

11 (D) provide technical assistance to facili-
12 tate use of the electronic dissemination network
13 by State and local educational agencies and
14 schools throughout the region;

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

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

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

5 ~~(C)~~ facilitate coordination and implementa-
6 tion of an electronic dissemination network and
7 the distance learning described in section
8 907(a)(4)(B)(ii) of the Star Schools Program
9 Assistance Act;

10 ~~(D)~~ assist the Office in designing and im-
11 plementing an interactive telecommunications
12 network to link educational agencies within and
13 among consortia for the purpose of transferring
14 educational information resources, including re-
15 sources that utilize voice, video, data, and re-
16 sources that are transmitted over satellite,
17 microwave, cable, fiber, and other means; and

18 ~~(E)~~ establish a coordinated system of dis-
19 tance education involving microwave technology
20 combined with other technology, as appropriate,
21 that can serve to disseminate information and
22 provide interactive staff development related to
23 new research findings, national educational ini-
24 tiatives, funding and program resources, and

1 educational technology developments and re-
2 sources appropriate to teaching and learning.

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

5 (A) develop and implement, in collabora-
6 tion with State educational agencies, training
7 and technology assistance training that can be
8 offered through site-based intensive summer
9 and school year workshops that utilize the
10 teachers-training-teachers model or accessed
11 through existing and emerging distance edu-
12 cational resources, including—

13 (i) interactive satellite training
14 telecourses using researchers, educators,
15 and telecommunications personnel who
16 have experience in developing, implement-
17 ing, or operating educational and instruc-
18 tional technology as a learning tool;

19 (ii) onsite courses teaching teachers to
20 use educational and instructional tech-
21 nology and to develop their own instruc-
22 tional materials for effectively incorporat-
23 ing technology and programming in their
24 own classrooms;

- 1 (iii) methods for successful integration
2 of instructional technology into the cur-
3 riculum; and
- 4 (iv) video conferences and seminars
5 which offer professional development
6 through peer interaction with experts as
7 well as other teachers using technologies in
8 their classrooms;
- 9 (B) develop training resources that are—
- 10 (i) relevant to the needs of the region
11 and schools within the region; and
- 12 (ii) aligned with the needs of edu-
13 cators and administrators in the region, in-
14 cluding educators and administrators from
15 public and private schools;
- 16 (C) establish a repository of staff develop-
17 ment and technical assistance resources;
- 18 (D) work with existing agencies in the re-
19 gion to identify and link technical assistance
20 providers to educational agencies, as needed;
- 21 (E) provide followup to ensure that train-
22 ing, staff development, and technical assistance
23 meets the needs of educators served by the re-
24 gion; and

1 (F) assist colleges and universities within
2 the region to develop and apply for funding to
3 implement preservice training programs for stu-
4 dents enrolled in teacher education programs.

5 (3) RESOURCE DEVELOPMENT.—Each consor-
6 tium receiving a grant under this section shall—

7 (A) assist educational agencies in the iden-
8 tification and procurement of financial, techno-
9 logical and human resources needed to imple-
10 ment technology plans;

11 (B) work with the local educational agen-
12 cies to assist in the development and validation
13 of instructionally based technology education re-
14 sources;

15 (C) identify and provide or broker, as ap-
16 propriate, human and technical resources to as-
17 sist schools in the application of the resources
18 assisted under this section; and

19 (D) coordinate activities and establish
20 partnerships with national and State nonprofit
21 professional educational organizations that rep-
22 resent the interests of the region as such inter-
23 ests pertain to the application of technology in
24 teaching, learning, instructional management,
25 dissemination, collection and distribution of

1 educational statistics, and the transfer of stu-
 2 dent information.

3 **SEC. 304. AUTHORIZATION OF APPROPRIATIONS.**

4 There are authorized to be appropriated \$41,000,000
 5 for the fiscal year 1994, and such sums as may be nec-
 6 essary for each of the 4 succeeding fiscal years, to carry
 7 out this title, of which—

8 (1) \$5,000,000 shall be available for the elec-
 9 tronic dissemination network described in section
 10 302; and

11 (2) \$50,000,000 shall be available to support
 12 the regional educational technology assistance con-
 13 sortia described in section 303.

14 **TITLE IV—EDUCATIONAL TECH-**
 15 **NOLOGY PRODUCT DEVELOP-**
 16 **MENT, PRODUCTION, AND**
 17 **DISTRIBUTION**

18 **SEC. 401. STATEMENT OF PURPOSE.**

19 It is the purpose of this title to support development,
 20 production, and distribution of technology-enhanced cur-
 21 riculum, and instruction and administrative support re-
 22 sources and services, by—

23 (1) establishing as a priority for federally sup-
 24 ported education technology programs the develop-
 25 ment (as opposed to research) of such programs;

1 (2) authorizing the Assistant Secretary to sup-
2 port the development, production and distribution of
3 technology-enhanced instructional resources and
4 services under this title;

5 (3) providing Federal funding for the joint de-
6 velopment, production, and distribution of resources
7 and services by consortia of businesses and edu-
8 cational institutions; and

9 (4) providing direction for the development of
10 the Ready To Learn Act and the Star Schools Pro-
11 gram Assistance Act.

12 **SEC. 402. PRIORITY IN FEDERALLY SUPPORTED EDU-**
13 **CATION PROGRAMS.**

14 Notwithstanding any other provision of law, in
15 awarding funds pursuant to any competitively awarded
16 Federal education program administered by the Secretary,
17 the Secretary shall ensure that a high priority is placed
18 on funding projects that utilize technology-enhanced cur-
19 riculum, instruction and administrative support resources
20 and services.

21 **SEC. 403. CLASSROOMS FOR THE FUTURE.**

22 (a) **SHORT TITLE.**—This section may be cited as the
23 “Technology for the Classroom Act of 1993”.

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

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

6 (c) ACHIEVEMENT GRANTS.—

7 (1) COMPETITIVE GRANTS.—

8 (A) IN GENERAL.—The Assistant Sec-
9 retary shall award grants, on a competitive
10 basis, to eligible consortia to enable such eligi-
11 ble consortia to develop computer-based instruc-
12 tional programs or technology-enhanced systems
13 for complete courses or units of study for a spe-
14 cific subject and grade level, if such programs
15 or systems are commercially unavailable in the
16 local area served by such eligible consortia.

17 (B) ELIGIBLE CONSORTIUM.—For the pur-
18 pose of this subsection the term “eligible con-
19 sortium” means a consortium—

20 (i) that shall include—

21 (I) a State or local educational
22 agency; and

23 (II) a business or industry; and

24 (ii) that may include—

1 (I) a public or private nonprofit
2 organization; or

3 (II) a postsecondary institution.

4 (2) PRIORITY.—In awarding grants under this
5 subsection, the Assistant Secretary shall give prior-
6 ity to applications describing programs or systems
7 that are developed—

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

11 (B) to raise the achievement levels of stu-
12 dents, particularly disadvantaged students who
13 are not realizing their potential; and

14 (C) in consultation with classroom teach-
15 ers.

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

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

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

5 (5) APPLICATION.—

6 (A) IN GENERAL.—Each eligible consor-
7 tium desiring a grant under this subsection
8 shall submit an application to the Assistant
9 Secretary at such time, in such manner, and ac-
10 companied by such information as the Assistant
11 Secretary may prescribe.

12 (B) CONTENTS.—Each application submit-
13 ted pursuant to paragraph (1) shall include—

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

17 (ii) a description of how teachers asso-
18 ciated with the program or system will be
19 trained to integrate technology into the
20 classroom;

21 (iii) an assurance that the program or
22 system shall effectively serve a large num-
23 ber or percentage of economically dis-
24 advantaged students; and

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

3 (6) CRITERIA FOR AWARDING GRANTS.—In
4 awarding a grant under this subsection to develop a
5 program or system, the Assistant Secretary shall
6 consider the appropriateness and quality of the fol-
7 lowing elements of the program or system:

8 (A) Identification of specific learning ob-
9 jectives and strategies of the proposed course or
10 unit of study, that take into consideration any
11 national education standards that may be devel-
12 oped for various disciplines.

13 (B) Incorporation in creative ways of a va-
14 riety of technology-enhanced learning resources,
15 such as computer software, databases, films,
16 transparencies, video and audio discs, tele-
17 communications (including educational radio
18 and television), with print resources.

19 (C) Design that allows tailoring of the pro-
20 gram or system to meet individual needs of stu-
21 dents, particularly students at greatest risk of
22 not reaching their educational potential.

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

1 (E) Methods for updating or revising infor-
2 mation and resources.

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

5 (G) Coordination with teacher training
6 programs.

7 (H) Explanatory resources for students
8 and parents.

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

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

14 (K) Plans for distribution that ensure ac-
15 cess for the poorest schools and school districts.

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

19 (d) ~~FEDERAL INTERAGENCY COORDINATION.~~—The
20 Assistant Secretary shall coordinate and share informa-
21 tion regarding curriculum-based educational technology
22 programs assisted under this section with other Federal
23 agencies which administer programs that support the de-
24 velopment of such programs, including the National
25 Science Foundation, the Department of Defense, the Of-

1 fice of Technology Assessment, the Corporation for Public
2 Broadcasting, the Department of Energy, and the Depart-
3 ment of Agriculture.

4 (e) CONSUMER REPORT.—The Assistant Secretary
5 shall collect information about products developed pursu-
6 ant to provisions of this section and the evaluation of such
7 products, and shall disseminate such information in regu-
8 lar reports to State and local educational agencies, and
9 other organizations or individuals that the Assistant Sec-
10 retary determines to be appropriate.

11 (f) ROYALTIES.—Notwithstanding any other provi-
12 sion of law, any royalties paid to any State or local edu-
13 cational agency as a result of assistance provided under
14 this section shall be used by such agency for further devel-
15 opment of curriculum-based learning resources authorized
16 by this section.

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

20 (h) AUTHORIZATION OF FUNDS.—For the purpose of
21 carrying out this section, there are authorized to be appro-
22 priated \$45,000,000 for the fiscal year 1994 and such
23 sums as may be necessary for each of the 4 succeeding
24 fiscal years.

1 **SEC. 404. INSTRUCTIONAL BROADCASTING AND VIDEO IN-**
2 **STRUCTIONAL PROGRAMMING.**

3 (a) STATEMENT OF PURPOSE.—It is the purpose of
4 this section to support the development of long-term com-
5 prehensive instructional programming and associated sup-
6 port resources for elementary and secondary grade core
7 curricula outlined in the National Education Goals so that
8 such resources are distributed electronically to the broad-
9 est possible segments of education in the United States
10 and are stored in archival formats that assure maximum
11 access by all educational institutions.

12 (b) PROGRAM AUTHORIZED.—

13 (1) IN GENERAL.—(A) The Assistant Secretary
14 is authorized to award grants to or enter into con-
15 tracts or cooperative agreements with eligible edu-
16 cational telecommunications partnerships to pay the
17 Federal share of the cost of the research, produc-
18 tion, and distribution of instructional programming
19 for students, and staff development programming
20 for teachers.

21 (B) For the purpose of this section the term
22 “programming” means the full range of audio and
23 video text and graphics used for education and in-
24 struction which can be distributed through inter-
25 active, command and control or passive methods.

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

5 (3) LIMITATION.—An eligible educational tele-
6 communications partnership may not receive assist-
7 ance under this section unless such entity has cer-
8 tified that all educational programming prepared
9 and distributed by such partnership, where appro-
10 priate, contains closed captioning of the verbal con-
11 tent of such program to be broadcast by way of line
12 21 of the vertical blanking interval, or by way of
13 comparable successor technologies, unless the provi-
14 sion of closed captioned broadcasting would cause
15 undue administrative or financial burden.

16 (4) RENEWALS.—Grants awarded and contracts
17 or cooperative agreements entered into pursuant to
18 paragraph (1) may be renewed to update and ex-
19 pand such resources.

20 (5) COLLABORATION.—Each eligible edu-
21 cational telecommunications partnership receiving
22 assistance under this section shall collaborate and
23 consult with appropriate education entities in design-
24 ing the instructional components of programming to

1 ensure that such components are relevant to na-
2 tional and State curriculum frameworks.

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

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

8 ~~(2) AVAILABILITY.—~~Funds appropriated pursu-
9 ant to the authority of paragraph ~~(1)~~ shall remain
10 available until expended.

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

14 ~~(e) COORDINATION.—~~The Department of Education,
15 the National Science Foundation, the Department of En-
16 ergy, the Department of Agriculture, the Department of
17 Commerce, the Corporation for Public Broadcasting, the
18 public broadcasting services, and any other Federal agen-
19 cy funding educational programming for children may co-
20 ordinate with and jointly fund activities assisted under
21 this section.

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

1 ship” means a partnership consisting of the following enti-
2 ties:

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

6 (2) A recognized organization knowledgeable
7 about the requirements of implementing within or
8 across a content area a curriculum compatible with
9 proposed or established voluntary national content
10 standards, such as an institution of higher edu-
11 cation, national professional organizations, or a sci-
12 entific laboratory.

13 (3) An instructional design institution that can
14 integrate student and teacher print resources, relat-
15 ed computer resources, interactive multimedia and
16 programming series into a coordinated whole.

17 (4) A marketing entity capable of distributing
18 all aspects of the products developed under this sec-
19 tion.

20 (g) APPLICATIONS.—

21 (1) APPLICATION REQUIRED.—Each eligible
22 educational telecommunications partnership which
23 desires to receive a grant or enter into a contract or
24 cooperative agreement under this section shall sub-
25 mit an application to the Assistant Secretary, at

1 such time, in such manner, and containing or ac-
2 companied by such information as the Assistant Sec-
3 retary may reasonably require.

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

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

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

11 ~~(i)~~ the research, design, piloting, pro-
12 duction, field testing, and distribution of
13 the products developed under this section;
14 and

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

17 ~~(C)~~ describe the piloting, teacher training
18 and testing of the programming, print, com-
19 puter, television, radio and interactive media
20 products.

21 ~~(h) PROGRAMS RELATED OPERATING FUNDS FOR~~
22 ~~INSTRUCTIONAL TEACHER TRAINING (PROFIT).—~~The As-
23 sistant Secretary shall allow the eligible educational tele-
24 communications partnership to receive a financial benefit
25 from the distribution of programming assisted under this

1 section. Such benefit shall be used by the eligible edu-
2 cational telecommunications partnership to support more
3 development of curriculum specific programming and to
4 provide greater access to a wider audience of educational
5 programming.

6 **SEC. 405. STAR SCHOOLS PROGRAM.**

7 The Star Schools Program Assistance Act (20 U.S.C.
8 4081 et seq.) is amended to read as follows:

9 **“SEC. 901. PURPOSE.**

10 “It is the purpose of this title to encourage improved
11 instruction in mathematics, science, and foreign languages
12 as well as other subjects, such as literacy skills and voca-
13 tional education, and to serve underserved populations, in-
14 cluding the disadvantaged, illiterate, limited-English pro-
15 ficient, and disabled, through a star schools program
16 under which grants are made to eligible telecommuni-
17 cation partnerships to enable such partnerships to—

18 “(1) develop, construct, acquire, maintain and
19 operate telecommunications audio and visual facili-
20 ties and equipment;

21 “(2) develop and acquire educational and in-
22 structional programming; and

23 “(3) obtain technical assistance for the use of
24 such facilities and instructional programming.

1 ~~“SEC. 902. GRANTS AUTHORIZED.~~

2 ~~“(a) IN GENERAL.—The Assistant Secretary is au-~~
3 ~~thorized, in accordance with the provisions of this title,~~
4 ~~to make grants to eligible telecommunications partner-~~
5 ~~ships to pay the Federal share of the cost of—~~

6 ~~“(1) the development, construction, acquisition,~~
7 ~~maintenance and operation of telecommunications~~
8 ~~facilities and equipment;~~

9 ~~“(2) the development and acquisition of live,~~
10 ~~interactive instructional programming;~~

11 ~~“(3) the development and acquisition of~~
12 ~~preservice and inservice teacher training programs~~
13 ~~based on established research regarding teacher-to-~~
14 ~~teacher mentoring, effective skill transfer, and ongo-~~
15 ~~ing, in-class instruction;~~

16 ~~“(4) the establishment of teleconferencing facili-~~
17 ~~ties and resources for broadcasting interactive train-~~
18 ~~ing to teachers;~~

19 ~~“(5) obtaining technical assistance; and~~

20 ~~“(6) the coordination of the design and~~
21 ~~connectivity of telecommunications networks to~~
22 ~~reach greater numbers of schools.~~

23 ~~“(b) DURATION.—~~

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

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

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

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

9 ~~“(2) AVAILABILITY.—~~Funds appropriated pur-
10 suant to the authority of subsection (a) shall remain
11 available until expended.

12 ~~“(d) LIMITATIONS.—~~

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

16 ~~“(2) RESERVATIONS.—~~

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

22 ~~“(B) CERTAIN LOCAL EDUCATIONAL AGEN-~~
23 ~~CHES.—~~Not less than 25 percent of the funds
24 available to the Assistant Secretary in any fis-
25 cal year under this title shall be used for the

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

7 “(e) FEDERAL SHARE.—

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

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

14 “(f) COORDINATION.—The Department of Edu-
15 cation, the National Science Foundation, the Department
16 of Agriculture, and any other Federal department or agen-
17 cy operating a telecommunications network for edu-
18 cational purposes, shall coordinate the activities assisted
19 under this title with the activities of such department or
20 agency relating to a telecommunications network for edu-
21 cational purposes.

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

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

3 **“SEC. 903. ELIGIBLE TELECOMMUNICATIONS PARTNER-**
4 **SHIPS.**

5 “(a) IN GENERAL.—In order to be eligible for a grant
6 under this title, an eligible telecommunications partner-
7 ship shall consist of—

8 “(1) a public agency or corporation established
9 for the purposes of developing and operating tele-
10 communications networks to enhance educational op-
11 portunities provided by educational institutions,
12 teacher training centers, and other entities, except
13 that any such agency or corporation shall represent
14 the interest of elementary and secondary schools
15 which are eligible for assistance under chapter 1 of
16 title I of the Elementary and Secondary Education
17 Act of 1965; or

18 “(2) a partnership that will provide a tele-
19 communications network and which includes 3 or
20 more of the following entities, at least 1 of which
21 shall be an agency described in subparagraph (A) or
22 (B):

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

1 chapter 1 of title 1 of the Elementary and Sec-
2 ondary Education Act of 1965 or elementary
3 and secondary schools operated for Indian chil-
4 dren by the Department of Interior under sec-
5 tion 1005(d) of such Act;

6 “(B) a State educational agency;

7 “(C) an institution of higher education or
8 a State higher education agency;

9 “(D) a teacher training center or academy
10 which—

11 “(i) provides teacher preservice and
12 inservice training; and

13 “(ii) receives Federal financial assist-
14 ance or has been approved by a State
15 agency; or

16 “(E)(i) a public or private entity with ex-
17 perience and expertise in the planning and op-
18 eration of a telecommunications network, in-
19 cluding entities involved in telecommunications
20 through satellite, cable, telephone or computers;
21 or

22 “(ii) a public broadcasting entity with such
23 experience.

1 “(b) SPECIAL RULE.—An eligible telecommuni-
2 cations partnership shall be organized on a statewide or
3 multistate basis.

4 “SEC. 904. APPLICATIONS.

5 “(a) APPLICATIONS REQUIRED.—

6 “(1) IN GENERAL.—Each eligible telecommuni-
7 cations partnership which desires to receive a grant
8 under section 902 shall submit an application to the
9 Assistant Secretary, at such time, in such manner,
10 and containing or accompanied by such information
11 as the Assistant Secretary may reasonably require.

12 “(2) SPECIAL RULE.—The Assistant Secretary
13 shall permit applicants for assistance under this Act
14 and applicants for assistance under any other Fed-
15 eral program providing educational technology in the
16 classroom to submit a single application for assist-
17 ance.

18 “(b) CONTENTS OF THE APPLICATION.—Each appli-
19 cation submitted pursuant to subsection (a) shall—

20 “(1) describe the telecommunications facilities
21 and equipment and technical assistance for which
22 assistance is sought, which may include—

23 “(A) the design, development, construction,
24 acquisition, maintenance and operation of State

1 or multistate educational telecommunications
2 networks and technology resource centers;

3 ~~“(B) microwave, fiber optics, cable, and~~
4 ~~satellite transmission equipment or any com-~~
5 ~~bination thereof;~~

6 ~~“(C) reception facilities;~~

7 ~~“(D) satellite time;~~

8 ~~“(E) production facilities;~~

9 ~~“(F) other telecommunications equipment~~
10 ~~capable of serving a wide geographic area;~~

11 ~~“(G) the provision of training services to~~
12 ~~instructors who will be using the facilities and~~
13 ~~equipment for which assistance is sought, in-~~
14 ~~cluding training in using such facilities and~~
15 ~~equipment and training in integrating programs~~
16 ~~into the classroom curriculum; and~~

17 ~~“(H) the development of educational pro-~~
18 ~~gramming for use on a telecommunications net-~~
19 ~~work;~~

20 ~~“(2) in the case of an application for assistance~~
21 ~~for instructional programming, describe the types of~~
22 ~~programming which will be developed to enhance in-~~
23 ~~struction and training and provide assurances that~~
24 ~~such programming will be designed in consultation~~

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

3 “(3) demonstrate that the eligible telecommuni-
4 cations partnership has engaged in sufficient survey
5 and analysis of the area to be served to ensure that
6 the services offered by the eligible telecommuni-
7 cations partnership will increase the availability of
8 courses of instruction in mathematics, science, and
9 foreign languages, as well as other subjects to be of-
10 fered;

11 “(4) describe the training policies for teachers
12 and other school personnel to be implemented to en-
13 sure the effective use of telecommunications facilities
14 and equipment for which assistance is sought;

15 “(5) provide assurances that the financial inter-
16 est of the United States in the telecommunications
17 facilities and equipment will be protected for the
18 useful life of such facilities and equipment;

19 “(6) provide assurances that a significant por-
20 tion of any facilities and equipment, technical assist-
21 ance, and programming for which assistance is
22 sought for elementary and secondary schools will be
23 made available to schools of local educational agen-
24 cies which have a high percentage of children eligible

1 to be counted under chapter 1 of title I of the Ele-
2 mentary and Secondary Education Act of 1965;

3 ~~“(7) describe the manner in which traditionally~~
4 ~~underserved students, such as students who are dis-~~
5 ~~advantaged, limited-English proficient, disabled, or~~
6 ~~illiterate will participate in the benefits of the tele-~~
7 ~~communications facilities, equipment, technical as-~~
8 ~~sistance, and programming assisted under this title;~~

9 ~~“(8) provide assurances that the applicant will~~
10 ~~use the funds provided under this title to supple-~~
11 ~~ment and not supplant funds otherwise available for~~
12 ~~the purposes of this title;~~

13 ~~“(9) if the applicant is submitting an applica-~~
14 ~~tion for assistance under title II of the Technology~~
15 ~~for Education Act of 1993, describe how funds re-~~
16 ~~ceived under this title will be coordinated with funds~~
17 ~~received for educational technology in the classroom~~
18 ~~under title II of such Act;~~

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

22 ~~“(A) providing facilities, equipment, train-~~
23 ~~ing, services, and technical assistance described~~
24 ~~in paragraphs (1), (2), (4) and (7);~~

1 “(B) making programs accessible to indi-
2 viduals with disabilities through mechanisms
3 such as closed captioning and descriptive video
4 services;

5 “(C) linking networks together, for exam-
6 ple, around an issue of national importance,
7 such as national elections;

8 “(D) sharing curriculum resources between
9 networks and development of program guides
10 which demonstrate cooperative, cross-network
11 listing of programs for specific curriculum
12 areas;

13 “(E) providing teacher and student sup-
14 port services including classroom and training
15 support materials which permit student and
16 teacher involvement in the live interactive dis-
17 tance learning telecasts;

18 “(F) incorporating community resources,
19 such as libraries and museums, into instruc-
20 tional programs;

21 “(G) providing teacher training to early
22 childhood development and Head Start teachers
23 and staff;

24 “(H) providing teacher training to voca-
25 tional education teachers and staff;

1 “(I) providing teacher training on proposed
2 or established voluntary national content stand-
3 ards in mathematics and science and other dis-
4 ciplines as such standards are developed;

5 “(J) providing programs for adults at
6 times other than the regular school day in order
7 to maximize the use of telecommunications fa-
8 cilities and equipment; and

9 “(K) providing parent education programs
10 during and after the regular school day which
11 reinforce the student’s course of study and ac-
12 tively involve parents in the learning process;
13 and

14 “(11) include such additional assurances as the
15 Secretary may reasonably require.

16 “(c) APPROVAL OF APPLICATION; PRIORITY.—The
17 Assistant Secretary, in approving applications under this
18 title, shall give priority to applications which demonstrate
19 that—

20 “(1) a concentration and quality of mathe-
21 matics, science, and foreign languages resources
22 which, by their distribution through the eligible tele-
23 communications partnership, will offer significant
24 new educational opportunities to network partici-
25 pants, particularly to traditionally underserved popu-

1 lations and areas with scarce resources and limited
2 access to courses in mathematics, science, and for-
3 eign languages;

4 “(2) the eligible telecommunications partnership
5 has secured the direct cooperation and involvement
6 of public and private educational institutions, State
7 and local government, and industry in planning the
8 network;

9 “(3) the eligible telecommunications partnership
10 will serve the broadest range of institutions, includ-
11 ing in the case of elementary and secondary schools,
12 those elementary and secondary schools having a
13 significant number of students eligible to be counted
14 under chapter 4 of title I of the Elementary and
15 Secondary Education Act of 1965, programs provid-
16 ing instruction outside of the school setting, institu-
17 tions of higher education, teacher training centers,
18 research institutes, and private industry;

19 “(4) a significant number of educational insti-
20 tutions have agreed to participate or will participate
21 in the use of the telecommunications system for
22 which assistance is sought;

23 “(5) the eligible telecommunications partnership
24 will have substantial academic and teaching capabili-
25 ties, including the capability of training, retraining,

1 and service upgrading of teaching skills and the ca-
2 pability to provide professional development leading
3 to comprehensive effective instructional strategies,
4 outcomes-based curriculum and parenting practices;

5 “(6) the eligible telecommunications partnership
6 will—

7 “(A) provide a comprehensive range of
8 courses for educators with different skill levels
9 to teach instructional strategies for students
10 with different skill levels;

11 “(B) provide training to participating edu-
12 cators in ways to integrate telecommunications
13 courses into existing school curriculum; and

14 “(C) include instruction for students,
15 teachers, and parents;

16 “(7) the eligible telecommunications partnership
17 will serve a multistate area;

18 “(8) a telecommunications entity (such as a
19 satellite, cable, telephone, computer, or public or pri-
20 vate television stations) will participate in the part-
21 nership and will donate equipment or in kind serv-
22 ices for telecommunications linkages; and

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

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

4 “(d) GEOGRAPHIC DISTRIBUTION.—In approving ap-
5 plications under this title, the Assistant Secretary shall
6 assure an equitable geographic distribution of grants
7 under this title.

8 **“SEC. 905. DISSEMINATION OF COURSES AND RESOURCES**
9 **UNDER THE STAR SCHOOLS PROGRAM.**

10 “(a) REPORT.—Each eligible telecommunications
11 partnership awarded a grant under this title shall report
12 to the Assistant Secretary a listing and description of
13 available courses of instruction and resources to be offered
14 by educational institutions and teacher training centers
15 which will be transmitted over satellite, specifying the sat-
16 ellite on which such transmission will occur and the time
17 of such transmission.

18 “(b) DISSEMINATION OF COURSES OF INSTRU-
19 CTION.—The Assistant Secretary shall compile and prepare
20 for dissemination a listing and description of available
21 courses of instruction and resources to be offered by edu-
22 cational institutions and teacher training centers equipped
23 with satellite transmission capabilities as reported to the
24 Assistant Secretary under subsection (a).

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

5 ~~“SEC. 906. ADMINISTRATIVE PROVISIONS.~~

6 ~~“(a) CONTINUING ELIGIBILITY.—~~

7 ~~“(1) IN GENERAL.—In order to be eligible to~~
8 ~~receive a grant under this title in any fiscal year~~
9 ~~after the first fiscal year in which an eligible tele-~~
10 ~~communications partnership receives a grant under~~
11 ~~this title, such partnership shall demonstrate in the~~
12 ~~application submitted pursuant to section 904 that~~
13 ~~such partnership will—~~

14 ~~“(A) continue to provide services in the~~
15 ~~subject areas and geographic areas assisted~~
16 ~~with funds received under this title in the pre-~~
17 ~~vious fiscal year; and~~

18 ~~“(B) use all such grant funds to provide~~
19 ~~expanded services by—~~

20 ~~“(i) increasing the number of stu-~~
21 ~~dents, schools or school districts served by~~
22 ~~the courses of instruction assisted under~~
23 ~~this title in the previous fiscal year;~~

24 ~~“(ii) providing new courses of instruc-~~
25 ~~tion; and~~

1 ~~“(iii) serving new populations of un-~~
2 ~~derserved individuals, such as children or~~
3 ~~adults who are disadvantaged, have lim-~~
4 ~~ited English proficiency, are disabled, are~~
5 ~~illiterate, or lack high school diplomas or~~
6 ~~their equivalent.~~

7 ~~“(2) SPECIAL RULES.—Grant funds received~~
8 ~~pursuant to the application of paragraph (1) shall be~~
9 ~~used to supplement and not supplant services pro-~~
10 ~~vided by the recipient under this title in the previous~~
11 ~~fiscal year.~~

12 ~~“(b) EVALUATION.—~~

13 ~~“(1) IN GENERAL.—From amounts appro-~~
14 ~~priated pursuant to the authority of subsection (b),~~
15 ~~the Secretary shall reserve not more than \$500,000~~
16 ~~or 5 percent of such appropriations, whichever is~~
17 ~~less, to conduct an independent evaluation by grant,~~
18 ~~contract, or cooperative agreement, of the program~~
19 ~~assisted under this title.~~

20 ~~“(2) SUBMISSION.—The evaluation required~~
21 ~~under paragraph (1) shall be submitted to the Con-~~
22 ~~gress and the Assistant Secretary not later than~~
23 ~~June 1, 1995.~~

24 ~~“(3) CONTENTS.—The evaluation described in~~
25 ~~paragraph (1) shall include—~~

1 “(A) a review of the effectiveness of eligi-
2 ble telecommunications partnerships and pro-
3 grams assisted under this title after Federal
4 funding under this title ceases;

5 “(B) an analysis of the effectiveness of
6 non-Federal funds provided under this title, in-
7 cluding funds leveraged under this title and the
8 permanency of such funding;

9 “(C) an analysis of how grant recipients
10 under this title spend funds appropriated to
11 carry out this title;

12 “(D) a review of the subject matter and
13 success of distance learning through programs
14 assisted under this title;

15 “(E) a comprehensive review of inservice
16 teacher training programs assisted under this
17 title, including the number of teachers trained,
18 time spent in training programs, and a com-
19 parison of the effectiveness of such training and
20 conventional teacher training programs;

21 “(F) an analysis of programs assisted
22 under this title that focus on teacher certifi-
23 cation and other requirements and the resulting
24 effect on the delivery of instructional program-
25 ming;

1 “(G) the effects of distance learning on
2 curriculum and staffing patterns at participat-
3 ing schools;

4 “(H) an analysis of the socioeconomic
5 characteristics of students participating in pro-
6 grams assisted under this title, including a re-
7 view of the differences and effectiveness of pro-
8 gramming and services provided to economically
9 disadvantaged and minority students;

10 “(I) an analysis of the socioeconomic and
11 geographic characteristics of schools participat-
12 ing in programs assisted under this title, in-
13 cluding a review of the variety of programming
14 provided to different schools; and

15 “(J) the impact of dissemination grants
16 under section 907(a) on the use of technology-
17 enhanced programs in local educational agen-
18 cies.

19 “(c) FEDERAL ACTIVITIES.—The Assistant Secretary
20 may assist grant recipients under this title in acquiring
21 satellite time, where appropriate, as economically as
22 possible.

23 **“SEC. 907. OTHER ASSISTANCE.**

24 “(a) DISSEMINATION GRANTS.—

1 ~~“(1) IN GENERAL.—~~The Assistant Secretary
2 shall make grants under this subsection to eligible
3 telecommunications partnerships assisted under this
4 title and to eligible entities that enter into an agree-
5 ment with the Assistant Secretary to provide dis-
6 semination and technical assistance to State and
7 local educational agencies not served under this title.

8 ~~“(2) DEFINITION.—~~For the purposes of this
9 subsection, the term ‘eligible entity’ means an orga-
10 nization or institution of higher education that has
11 demonstrated expertise in educational applications of
12 technology and provides comprehensive technical as-
13 sistance to educators and policymakers at the local
14 level.

15 ~~“(3) RESERVATION.—~~The Assistant Secretary
16 shall reserve not less than 5 percent and not more
17 than 10 percent of the amount appropriated pursu-
18 ant to the authority of subsection (c) in each fiscal
19 year to award grants under this subsection.

20 ~~“(4) APPLICATIONS.—~~

21 ~~“(A) IN GENERAL.—~~Each eligible tele-
22 communications partnership and eligible entity
23 that desires to receive a grant under this sub-
24 section shall submit an application to the Sec-
25 retary, at such time, in such manner, and con-

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

3 “(B) CONTENTS.—Each applicant de-
4 scribed in paragraph (2) shall contain assur-
5 ances that the eligible telecommunications part-
6 nership or eligible entity shall provide technical
7 assistance to State and local educational agen-
8 cies in order to enable such agencies to plan
9 and implement technology-enhanced systems,
10 including—

11 “(i) information regarding successful
12 distance learning resources for States, local
13 educational agencies, and schools;

14 “(ii) assistance in connecting users of
15 distance learning, regional educational
16 services centers, colleges and universities,
17 the private sector, and other relevant enti-
18 ties;

19 “(iii) assistance and advice in the de-
20 sign and implementation of systems, in-
21 cluding needs assessment and technology
22 design; and

23 “(iv) support for the identification of
24 possible connections, and cost-sharing ar-
25 rangements for users of such systems.

1 “(b) SPECIAL STATEWIDE NETWORK.—

2 “(1) IN GENERAL.—The Assistant Secretary
3 may provide assistance to a statewide telecommuni-
4 cations network under this subsection if such net-
5 work—

6 “(A) provides 2-way interactive video and
7 audio communications;

8 “(B) links together public colleges and uni-
9 versities and secondary schools throughout the
10 State; and

11 “(C) meets any other requirements deter-
12 mined appropriate by the Secretary.

13 “(2) STATE CONTRIBUTION.—A statewide tele-
14 communications network assisted under paragraph
15 (1) shall contribute, either directly or through pri-
16 vate contributions, non-Federal funds equal to not
17 less than 50 percent of the cost of such network.

18 “(c) SPECIAL LOCAL NETWORK.—

19 “(1) IN GENERAL.—The Assistant Secretary
20 may provide assistance to a local educational agency
21 or consortium thereof to enable such agency or con-
22 sortium to establish a high technology demonstration
23 program.

1 ~~“(2) PROGRAM REQUIREMENTS.—A high tech-~~
2 ~~nology demonstration program assisted under para-~~
3 ~~graph (1) shall—~~

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

6 ~~“(B) link together elementary and second-~~
7 ~~ary schools, colleges, and universities;~~

8 ~~“(C) provide parent participation and fam-~~
9 ~~ily programs;~~

10 ~~“(D) include a staff development program;~~

11 ~~and~~

12 ~~“(E) have a significant contribution and~~
13 ~~participation from business and industry.~~

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

18 ~~“(4) MATCHING REQUIREMENT.—A local edu-~~
19 ~~cational agency or consortium receiving a grant~~
20 ~~under paragraph (1) shall provide, either directly or~~
21 ~~through private contributions, non-Federal matching~~
22 ~~funds equal to not less than 50 percent of the~~
23 ~~amount of the grant.~~

24 **“SEC. 908. DEFINITIONS.**

25 ~~“As used in this title—~~

1 “(1) the term ‘educational institution’ means an
2 institution of higher education, a local educational
3 agency, or a State educational agency;

4 “(2) the term ‘institution of higher education’
5 has the same meaning given that term by section
6 1201(a) of the Higher Education Act of 1965;

7 “(3) the term ‘local educational agency’ has the
8 same meaning given that term by section 1471(12)
9 of the Elementary and Secondary Education Act of
10 1965;

11 “(4) the term ‘instructional programming’
12 means courses of instruction, training courses, and
13 resources used in such instruction and training,
14 which have been prepared in audio and visual form
15 on tape, disc, film, live, and presented by means of
16 telecommunications devices;

17 “(5) the term ‘public broadcasting entity’ has
18 the same meaning given that term by section 397 of
19 the Communications Act of 1934;

20 “(6) the term ‘Assistant Secretary’ means the
21 Assistant Secretary for Educational Technology;

22 “(7) the term ‘State educational agency’ has
23 the same meaning given that term under section
24 1471(23) of the Elementary and Secondary Edu-
25 cation Act of 1965; and

1 “(8) the term ‘State’ means each of the several
 2 States, the District of Columbia, the Commonwealth
 3 of Puerto Rico, Guam, American Samoa, the Virgin
 4 Islands, the Republic of the Marshall Islands, the
 5 Federated States of Micronesia, the Republic of
 6 Palau, and the Commonwealth of the Northern Mar-
 7 iana Islands.”.

8 **TITLE V—EDUCATIONAL TECH-**
 9 **NOLOGY RESEARCH, DEVEL-**
 10 **OPMENT AND ASSESSMENT**

11 **SEC. 501. PURPOSES.**

12 It is the purpose of this title—

13 (1) to provide direction and support for the
 14 conduct of developmental research on advanced edu-
 15 cational technologies;

16 (2) to support the design and development of
 17 educational access to high performance communica-
 18 tions and computing services;

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

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

1 (c) ~~PRIORITIES.~~—In awarding assistance under this
2 section, the Assistant Secretary shall give the highest pri-
3 ority to research projects which are intended to develop
4 educational applications using advanced technologies
5 which have been used effectively by the Federal Govern-
6 ment, or business and industry.

7 (d) ~~ELIGIBLE APPLICANTS.~~—Any single developer or
8 partnership that can demonstrate both the technological
9 expertise and educational content and instructional design
10 expertise is eligible to apply for assistance under sub-
11 section (b).

12 (e) ~~APPLICATION REQUIREMENTS.~~—Each eligible ap-
13 plicant desiring assistance under this section shall submit
14 an application to the Assistant Secretary at such time, in
15 such manner, and accompanied by such information, as
16 the Assistant Secretary may reasonably require. Each
17 such application shall—

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

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

23 (3) assess and test the applications of the ad-
24 vanced technology in a way that will validate the

1 technology and content usage by the proposed stu-
2 dents;

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

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

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

14 **SEC. 503. HIGH PERFORMANCE EDUCATIONAL COMPUTING**
15 **AND TELECOMMUNICATIONS NETWORKS.**

16 (a) FINDINGS; STATEMENT OF PURPOSE.—

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

18 (A) throughout the United States various
19 public and private sector groups are developing
20 high performance computing and telecommuni-
21 cations networks;

22 (B) by the year 2000, such efforts should
23 result in public access to a variety of informa-
24 tion resources;

1 (C) there needs to be more direct coordina-
2 tion among such efforts and a more explicit
3 consideration of the needs of education in the
4 designs of such efforts; and

5 (D) support and resources are required to
6 permit schools and libraries to take advantage
7 of the explosive growth in communication capa-
8 bilities and information access that technology
9 provides.

10 (2) STATEMENT OF PURPOSE.—It is the pur-
11 pose of this section to ensure that such high per-
12 formance computing and telecommunications net-
13 works (often identified as “information highways”)
14 are developed with due consideration to the needs of
15 elementary and secondary education and that such
16 networks have explicit provisions which facilitate
17 educational uses in order to ensure that the class-
18 rooms and libraries in the Nation’s elementary and
19 secondary schools have adequate access to the
20 emerging “information highways”.

21 (b) AUTHORITY.—The Assistant Secretary is author-
22 ized to—

23 (1) identify educational high performance com-
24 puting and telecommunications network require-
25 ments;

1 (2) develop specifications for the implementa-
2 tion of such requirements within any national tele-
3 communications network;

4 (3) establish prototype operations on existing
5 networks to validate and further develop the edu-
6 cational specifications which will facilitate the use of
7 such networks by kindergarten through twelfth
8 grade students, teachers, administrators, and par-
9 ents;

10 (4) represent the needs and interests of elemen-
11 tary and secondary schools in the Federal planning
12 and development of a national information infra-
13 structure; and

14 (5) identify policy issues, such as communica-
15 tion rate structures and intellectual property rights,
16 that impact upon the ability of the public schools to
17 make effective use of the emerging information high-
18 ways and make recommendations to the Secretary
19 and the Congress.

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

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

1 communications network requirements. The solicita-
2 tion shall request proposals which—

3 (A) identify and describe existing and
4 planned educational high performance comput-
5 ing and telecommunications network efforts;

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

9 (C) identify potential uses of such net-
10 works in kindergarten through twelfth grade
11 education by schools throughout the United
12 States;

13 (D) assess impediments to the development
14 of such networks in kindergarten through
15 twelfth grade education (such as technological
16 impediments, availability of technology-en-
17 hanced curriculum, instruction, and administra-
18 tive support resources and services in local
19 schools; and parent, student, teacher and ad-
20 ministrators attitudes toward technology-en-
21 hanced education);

22 (E) assess the anticipated costs and bene-
23 fits to be derived from such network access in
24 kindergarten through twelfth grade education;
25 and

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

4 (2) SPECIFICATIONS GRANTS.—The Assistant
5 Secretary shall solicit proposals for and award
6 grants to 1 or more entities for the design and de-
7 velopment of educational specifications which may be
8 used to ensure educational access to any national
9 educational high performance computing and tele-
10 communications network. The solicitation shall re-
11 quest proposals which—

12 (A) incorporate—

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

15 (ii) the priorities recommended for
16 such networks by the Assistant Secretary
17 with the advice of the National Commis-
18 sion on Technology in Education;

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

23 (C) provide for the development of speci-
24 fications for selected design alternatives or of
25 specifications for a composite design;

1 (D) address technological issues, includ-
2 ing—

3 (i) linkage of schools and communities
4 with each other, with central resource cen-
5 ters, and with Federal and State agencies
6 over existing or planned telecommuni-
7 cations networks, such as INTERNET,
8 the National Research Education Network,
9 and Telstar 401;

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

13 (iii) integrated uses of two-way inter-
14 active voice, video, and data communica-
15 tions;

16 (iv) uses of interactive multimedia;

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

20 (vi) availability of needed technologies;

21 (vii) availability of support services;

22 and

23 (viii) assessment of the impact of pro-
24 posed educational access specifications on

1 existing or planned telecommunications
2 network; and

3 ~~(E)~~ provide comprehensive specifications
4 which will ensure educational access to any na-
5 tional educational high performance computing
6 and telecommunications network as the primary
7 deliverable product of the specifications grants
8 described in paragraph (1).

9 ~~(3) PROTOTYPE DEVELOPMENT GRANTS.~~—The
10 Assistant Secretary shall solicit proposals for and
11 award grants to 1 or more entities for prototype op-
12 erations on existing networks in order to validate
13 and further develop the educational specifications
14 which will facilitate use of existing or planned edu-
15 cational high performance communicating and tele-
16 communications networks by kindergarten through
17 twelfth grade students, teachers, administrators, and
18 parents. The solicitation shall request proposals
19 which—

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

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

5 (C) provide for inservice training and tech-
6 nical assistance during the period of prototype
7 operations;

8 (D) provide provisions for the identifica-
9 tion and correction of operational problems dur-
10 ing the period of prototype operations (includ-
11 ing design flaws);

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

14 (i) design flaws;

15 (ii) training requirements, including
16 resources and strategies for initial and on-
17 going training;

18 (iii) technical support requirements;

19 (iv) financing constraints;

20 (v) availability and utility of informa-
21 tion resources and services accessed during
22 the prototype operations period;

23 (vi) factors which enhanced or im-
24 peded prototype operations; and

1 (vii) an overall assessment of the im-
2 pact of such technology on the educational
3 process; and

4 (F) provide recommended revisions of the
5 Assistant Secretary's educational high perform-
6 ance computing and telecommunications net-
7 work specifications based on findings of the
8 comprehensive evaluation of prototype oper-
9 ations.

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

12 (1) ~~REQUIREMENT GRANTS.~~—The Assistant
13 Secretary shall award requirement grants under sub-
14 section (c)(1) by January 1, 1995.

15 (2) ~~DEVELOPMENT OF DESIGN SPECIFICA-~~
16 ~~TIONS.~~—The Assistant Secretary shall award grants
17 under subsection (c)(2) by January 1, 1996.

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

21 (e) ~~AUTHORIZATION OF APPROPRIATIONS.~~—There
22 are authorized to be appropriated \$2,500,000 for fiscal
23 year 1994, \$2,500,000 for fiscal year 1995, and
24 \$10,000,000 for fiscal year 1996, to carry out this section.

1 **SEC. 504. ASSESSMENT OF TECHNOLOGY IN EDUCATION.**

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

3 (1) to make an annual status report available
4 to the Congress and the public regarding the state-
5 of-the-art uses of technology in State and local edu-
6 cational programs throughout the United States;
7 and

8 (2) to support research regarding—

9 (A) the effectiveness of technology-en-
10 hanced curriculum instruction;

11 (B) administrative support resources and
12 services in improving education in the United
13 States; and

14 (C) school library media center techno-
15 logical support.

16 (b) **AUTHORITY.**—The Assistant Secretary, through
17 the Office, shall—

18 (1) conduct an annual assessment of the uses
19 of technology in State and local educational pro-
20 grams; and

21 (2) award grants to support research on the ef-
22 fectiveness of technology-enhanced education pro-
23 grams.

24 (c) **ANNUAL ASSESSMENT.**—The Assistant Secretary
25 shall conduct the annual assessment described in sub-
26 section (b)(1) by obtaining input from a variety of sources;

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

6 (1) TIMING OF THE ASSESSMENTS.—Each as-
7 sessment shall be conducted during the normal
8 school year at such a time that the data collection
9 will coincide with other data collections and facilitate
10 data interpretation in reference to other routinely
11 collected educational performance data, such as stu-
12 dent enrollment and teacher preparation statistics.

13 (2) INTERAGENCY COOPERATION.—The head of
14 each Federal department or agency that supports an
15 education program shall cooperate with the Assist-
16 ant Secretary's efforts to assess and report on the
17 utilization of technology-enhanced curriculum, in-
18 struction, and administrative support resources and
19 services in federally supported education programs.

20 (3) USE OF GOVERNMENT RESOURCES; CON-
21 TRACTED SERVICES.—The Assistant Secretary shall
22 conduct the assessments using the resources of the
23 Office or the resources of any other Federal depart-
24 ment or agency made available to the Assistant Sec-

1 retary, and by contracting for services from the pub-
2 lic, private, or nonprofit sectors.

3 (4) ~~SUBMISSION.~~—The Assistant Secretary's
4 annual assessment shall be submitted to the Con-
5 gress in the fall of each year.

6 (d) ~~EFFECTIVENESS RESEARCH.~~—The Assistant
7 Secretary is authorized to provide grants to public or pri-
8 vate, nonprofit organizations or institutions for the con-
9 duct and dissemination of research on the effectiveness of
10 new technologies for the improvement of education in the
11 United States. In awarding such grants, the Assistant
12 Secretary shall give priority to research projects which
13 focus on—

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

16 (2) technology-enhanced curriculum, instruc-
17 tion, and administrative support resources and serv-
18 ices developed in whole or in part with Federal fund-
19 ing; or

20 (3) operational needs of elementary or second-
21 ary schools involved in implementing technology-en-
22 hanced curriculum, instruction, and administrative
23 support resources and services to achieve the Na-
24 tional Education Goals.

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

5 **TITLE VI—MISCELLANEOUS**

6 **SEC. 601. STUDY OF SYSTEMIC FUNDING ALTERNATIVES.**

7 (a) IN GENERAL.—The Assistant Secretary shall con-
 8 duct a study to evaluate, and report to the Congress on,
 9 the feasibility of several alternative models for providing
 10 systematic funding for schools throughout the United
 11 States so that such schools are able to acquire and main-
 12 tain technology-enhanced curriculum, instruction, and ad-
 13 ministrative support resources and services.

14 (b) REPORT.—The report described in subsection (a)
 15 shall be presented to the Congress not later than August
 16 1, 1995.

17 **SEC. 602. PARTICIPATION OF PRIVATE SCHOOL CHILDREN.**

18 (a) PARTICIPATION OF PRIVATE SCHOOL CHIL-
 19 DREN.—To the extent consistent with the number of chil-
 20 dren who are enrolled in private nonprofit elementary or
 21 secondary schools served by an entity receiving assistance
 22 under this Act, such entity shall, after consultation with
 23 appropriate private school representatives, make provision
 24 for including services and arrangements for the benefit of

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

3 ~~(b) WAIVER.—If by reason of any provision of State~~
 4 ~~law an entity receiving assistance under this Act is prohib-~~
 5 ~~ited from providing for the participation of children from~~
 6 ~~private nonprofit schools as required by subsection (a), or~~
 7 ~~if the Secretary determines that such entity has substan-~~
 8 ~~tially failed or is unwilling to provide for such participa-~~
 9 ~~tion on an equitable basis, the Secretary shall waive such~~
 10 ~~requirements and shall arrange for the provision of serv-~~
 11 ~~ices to such children.~~

12 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

13 (a) *SHORT TITLE.*—*This Act may be cited as the*
 14 *“Technology for Education Act of 1994”.*

15 (b) *TABLE OF CONTENTS.*—*The table of contents is as*
 16 *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 ACHIEVE-
 MENT THROUGH INTEGRATION OF TECHNOLOGY INTO THE CUR-
 RICULUM*

- 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.*

1 SEC. 2. FINDINGS.

2 *The Congress finds that with respect to the use of tech-*
3 *nology in the educational process—*

4 *(1) technology applications can help propel our*
5 *Nation's school systems into very immediate and dra-*
6 *matic reform, without which our Nation will not meet*
7 *the National Education Goals by the target year*
8 *2000;*

9 *(2) creative uses of technology can reshape our*
10 *Nation's outdated method of providing education and*
11 *empower teachers to create an environment where stu-*
12 *dents can be challenged through rigorous, rich class-*
13 *room instruction at a pace that suits the learning*
14 *style of each individual student;*

1 (3) *the acquisition and use of technology in edu-*
2 *cation throughout the United States has been inhib-*
3 *ited by—*

4 (A) *the limited exposure of students and*
5 *teachers to the power of technology as a cost-ef-*
6 *fective tool to improve student learning and*
7 *achievement;*

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

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

13 (D) *the limited availability of technology-*
14 *enhanced curriculum, professional development*
15 *and administrative support resources and serv-*
16 *ices in the educational marketplace;*

17 (4) *advancements in technology offer new oppor-*
18 *tunities to promote partnerships among teachers, ad-*
19 *ministrators, students, parents, communities, and in-*
20 *dustry in the quest for knowledge and the process for*
21 *learning;*

22 (5) *technology, when used as an essential tool in*
23 *the learning process, will help cultivate and maintain*
24 *a technologically literate citizenry and internation-*
25 *ally competitive work force;*

1 (6) *the Department of Education, consistent with*
2 *the overall national technology policy established by*
3 *the President, must assume a vital leadership and co-*
4 *ordinating role in developing the national vision and*
5 *strategy to infuse advanced technology throughout all*
6 *educational programs;*

7 (7) *Federal support can ease the burden at the*
8 *State and local levels by enabling the acquisition of*
9 *advanced technology and initiating the development*
10 *of teacher training and support as well as new edu-*
11 *cational products;*

12 (8) *leadership at the Federal level should con-*
13 *sider guidelines to ensure that educational technology*
14 *is accessible to all users with maximum interoper-*
15 *ability nationwide;*

16 (9) *policies at the Federal, State, and local levels*
17 *concerning technology in education must address dis-*
18 *parities in the availability of technology to different*
19 *groups of students and make it a priority to serve*
20 *those students in greatest need;*

21 (10) *continuing professional development for*
22 *teachers and administrators requires ongoing expo-*
23 *sure to advancements in technology in order to keep*
24 *such teachers and administrators excited and knowl-*

1 *edgeable about the unfolding opportunities for the*
2 *classroom; and*

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

9 **SEC. 3. STATEMENT OF PURPOSE.**

10 *It is the purpose of this Act—*

11 *(1) to promote equal access for all students to*
12 *educational opportunities through advances in tech-*
13 *nology, including the information infrastructure, in*
14 *order to achieve the National Education Goals by the*
15 *year 2000;*

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

20 *(3) to support technical assistance, professional*
21 *development, information and resource dissemination,*
22 *in order to help States, local school districts, and*
23 *teachers successfully integrate technology into kinder-*
24 *garten through 12th grade classrooms;*

1 (4) to support the development of educational
2 and instructional programming in core subject areas,
3 which programming shall address the National Edu-
4 cation Goals;

5 (5) to offer opportunities for creative partner-
6 ships within the marketplace in order to develop
7 state-of-the-art educational technology products that
8 promote the use of advanced technologies in the class-
9 room;

10 (6) to avoid duplication and the development of
11 incompatible systems by strengthening and building
12 upon existing telecommunications infrastructure dedi-
13 cated to educational purposes; and

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

17 **SEC. 4. DEFINITIONS.**

18 (a) *IN GENERAL.*—The terms used in this Act, unless
19 otherwise specified, shall have the same meaning given to
20 such terms by section 1471 of the Elementary and Second-
21 ary Education Act of 1965.

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

24 (1) the term “all students” means students from
25 a broad range of backgrounds and circumstances, in-

1 *cluding disadvantaged students, students with diverse*
2 *racial, ethnic, and cultural backgrounds, students*
3 *with disabilities, students with limited-English pro-*
4 *ficiency, students who have dropped out of school, and*
5 *academically talented students;*

6 *(2) the term “information infrastructure” means*
7 *a network of communication systems designed to ex-*
8 *change information among all citizens and residents*
9 *of the United States;*

10 *(3) the terms “interoperable” and “interoper-*
11 *ability” refer to the ability to easily exchange data*
12 *with, and connect to, other hardware and software in*
13 *order to provide the greatest accessibility for all stu-*
14 *dents;*

15 *(4) the term “Office” means the Office of Edu-*
16 *cational Technology;*

17 *(5) the term “public telecommunications entity”*
18 *has the same meaning given to such term by section*
19 *397(12) of the Communications Act of 1934;*

20 *(6) the term “technology” means state-of-the-art*
21 *technology products and services, such as closed cir-*
22 *cuit television systems, educational television and*
23 *radio programs and services, cable television, satellite,*
24 *copper and fiber optic transmission, computer, video*

1 *and audio laser and CD-ROM discs, and video and*
2 *audio tapes; and*

3 *(7) the term “instructional programming”*
4 *means the full range of audio and video data, text,*
5 *graphics, or additional state-of-the-art communica-*
6 *tions, including multimedia based resources distrib-*
7 *uted through interactive, command and control, or*
8 *passive methods for the purpose of education and in-*
9 *struction.*

10 ***TITLE I—LEADERSHIP IN***
11 ***EDUCATIONAL TECHNOLOGY***

12 ***SEC. 101. PURPOSES.***

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

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

18 *(A) to infuse technology and technology*
19 *planning into all educational programs and*
20 *training functions carried out within school sys-*
21 *tems at the State and local level;*

22 *(B) to coordinate educational technology ac-*
23 *tivities among the related Federal and State de-*
24 *partments or agencies, industry leaders, and in-*
25 *terested educational and parental organizations;*

1 (C) to establish working guidelines to ensure
2 maximum interoperability nationwide and ease
3 of access for the emerging technologies so that no
4 school system will be excluded from the techno-
5 logical revolution; and

6 (D) to ensure that Federal technology-relat-
7 ed policies and programs facilitate the use of
8 technology in education;

9 (2) to promote awareness of the potential of tech-
10 nology for improving teaching and learning;

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

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

17 (5) to ensure the availability and dissemination
18 of knowledge (drawn from research and experience)
19 that can form the basis for sound State and local de-
20 cisions about investment in, and effective uses of, edu-
21 cational technology;

22 (6) to promote high-quality professional develop-
23 ment opportunities for teachers and administrators
24 regarding the integration of technology into instruc-
25 tion and administration;

1 (7) to promote the effective uses of technology in
2 existing Federal education programs, such as chapter
3 1 of title I of the Elementary and Secondary Edu-
4 cation Act of 1965 and vocational education pro-
5 grams; and

6 (8) to monitor, and disseminate information re-
7 garding, advancements in technology to encourage the
8 development of effective educational uses of technology.

9 **SEC. 102. FEDERAL LEADERSHIP.**

10 (a) *ACTIVITIES AUTHORIZED.*—

11 (1) *IN GENERAL.*—In order to provide Federal
12 leadership that promotes higher student achievement
13 through the use of technology in education and to
14 achieve the purposes of this title, the Secretary, in
15 consultation with the Office of Science and Tech-
16 nology Policy, the National Science Foundation, the
17 United States National Commission on Libraries and
18 Information Sciences, the Department of Commerce,
19 the Department of Energy, the National Aeronautics
20 and Space Administration, and other appropriate
21 Federal departments or agencies, may carry out ac-
22 tivities designed to achieve the purposes of this title.

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

1 *funds from, and transfer funds to, other Federal de-*
2 *partments or agencies.*

3 *(b) NATIONAL LONG-RANGE TECHNOLOGY PLAN.—*

4 *(1) IN GENERAL.—The Secretary shall develop*
5 *and publish within 12 months of the date of enact-*
6 *ment of this Act, and update when the Secretary de-*
7 *termines appropriate, a national long-range plan that*
8 *supports the overall national technology policy and*
9 *carries out the purposes of this title.*

10 *(2) PLAN REQUIREMENTS.—The Secretary*
11 *shall—*

12 *(A) develop the national long-range plan in*
13 *consultation with other Federal departments or*
14 *agencies, State and local education practitioners*
15 *and policymakers, experts in technology and the*
16 *educational applications of technology, represent-*
17 *atives of distance learning consortia, representa-*
18 *tives of telecommunications partnerships receiv-*
19 *ing assistance under the Star Schools Program*
20 *Assistance Act, and providers of technology serv-*
21 *ices and products;*

22 *(B) transmit such plan to the President and*
23 *to the appropriate committees of the Congress;*
24 *and*

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

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

6 (A) how the Secretary will encourage the ef-
7 fective use of technology to provide all students
8 the opportunity to achieve challenging State con-
9 tent standards and challenging State student
10 performance standards, especially through pro-
11 grams administered by the Department of Edu-
12 cation;

13 (B) joint activities in support of the overall
14 national technology policy with other Federal de-
15 partments or agencies, such as the Office of
16 Science and Technology Policy, the National En-
17 dowment for the Humanities, the National En-
18 dowment for the Arts, the National Aeronautics
19 and Space Administration, the National Science
20 Foundation, and the Departments of Commerce,
21 Energy, Health and Human Services, and
22 Labor—

23 (i) to promote the use of technology in
24 education, and training and lifelong learn-
25 ing, including plans for the educational

1 *uses of a national information infrastruc-*
2 *ture; and*

3 *(ii) to ensure that the policies and pro-*
4 *grams of such departments or agencies fa-*
5 *facilitate the use of technology for educational*
6 *purposes, to the extent feasible;*

7 *(C) how the Secretary will work with edu-*
8 *cators, State and local educational agencies, and*
9 *appropriate representatives of the private sector*
10 *to facilitate the effective use of technology in edu-*
11 *cation;*

12 *(D) how the Secretary will promote—*

13 *(i) higher achievement of all students*
14 *through the integration of technology into*
15 *the curriculum;*

16 *(ii) increased access to the benefits of*
17 *technology for teaching and learning for*
18 *schools with a high concentration of chil-*
19 *dren from low-income families;*

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

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

1 (v) *increased opportunities for the pro-*
2 *fessional development of teachers in the use*
3 *of new technologies;*

4 (E) *how the Secretary will determine, in*
5 *consultation with appropriate individuals, orga-*
6 *nizations, industries, and agencies, the feasibility*
7 *and desirability of establishing guidelines to fa-*
8 *cilitate an easy exchange of data and effective*
9 *use of technology in education;*

10 (F) *how the Secretary will utilize the out-*
11 *comes of the evaluation undertaken pursuant to*
12 *section 908 of the Star Schools Program Assist-*
13 *ance Act to promote the purposes of this title;*
14 *and*

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

18 (c) *ASSISTANCE.—The Secretary shall provide assist-*
19 *ance to the States to enable such States to plan effectively*
20 *for the use of technology in all schools throughout the State*
21 *in accordance with the purpose and requirements of section*
22 *201.*

23 **SEC. 103. OFFICE OF EDUCATIONAL TECHNOLOGY.**

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

1 *cation Organization Act (20 U.S.C. 3411 et seq.) is amend-*
 2 *ed by adding at the end the following new section:*

3 “OFFICE OF EDUCATIONAL TECHNOLOGY
 4 “SEC. 216. There shall be in the Department of Edu-
 5 *cation an Office of Educational Technology, to be adminis-*
 6 *tered by the Director of Educational Technology. The Direc-*
 7 *tor of Educational Technology shall report directly to the*
 8 *Secretary and shall perform such additional functions as*
 9 *the Secretary may prescribe. Such Office shall be established*
 10 *in accordance with section 405A of the General Education*
 11 *Provisions Act.”*

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

16 **“SEC. 405A. OFFICE OF EDUCATIONAL TECHNOLOGY.**

17 “(a) ESTABLISHMENT.—The Secretary shall establish
 18 *an Office of Educational Technology (hereafter in this sec-*
 19 *tion referred to as the ‘Office’).*

20 “(b) FUNCTIONS OF THE OFFICE.—The Director of the
 21 *Office of Educational Technology (hereafter in this section*
 22 *referred to as the ‘Director’), through the Office, shall—*

23 “(1) *in support of the overall national technology*
 24 *policy and in consultation with other Federal depart-*
 25 *ments or agencies which the Director determines ap-*
 26 *propriate, provide leadership to the Nation in the use*

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

5 *“(2) review all programs and training functions*
6 *administered by the Department and recommend*
7 *policies in order to promote increased use of tech-*
8 *nology and technology planning throughout all such*
9 *programs and functions;*

10 *“(3) review all relevant programs supported by*
11 *the Department to ensure that such programs are co-*
12 *ordinated with and support the national long-range*
13 *technology plan developed pursuant to this Act; and*

14 *“(4) perform such additional functions as the*
15 *Secretary may require.*

16 *“(c) PERSONNEL.—The Director is authorized to select,*
17 *appoint, and employ such officers and employees as may*
18 *be necessary to carry out the functions of the Office, subject*
19 *to the provisions of title 5, United States Code (governing*
20 *appointments in the competitive service), and the provi-*
21 *sions of chapter 51 and subchapter III of chapter 53 of such*
22 *title (relating to classification and General Schedule pay*
23 *rates.*

1 “(d) *EXPERTS AND CONSULTANTS.*—*The Secretary*
2 *may obtain the services of experts and consultants in ac-*
3 *cordance with section 3109 of title 5, United States Code.*”.

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

7 “*Director of the Office of Educational Tech-*
8 *nology.*”.

9 **SEC. 104. USES OF FUNDS.**

10 (a) *IN GENERAL.*—*The Secretary shall use funds ap-*
11 *propriated pursuant to the authority of section 107 for ac-*
12 *tivities designed to carry out the purpose of this title, in-*
13 *cluding—*

14 (1) *providing assistance to technical assistance*
15 *providers to enable such providers to improve sub-*
16 *stantially the services such providers offer to edu-*
17 *cators regarding the educational uses of technology,*
18 *including professional development;*

19 (2) *consulting with representatives of industry,*
20 *elementary and secondary education, higher edu-*
21 *cation, and appropriate experts in technology and the*
22 *educational applications of technology, in carrying*
23 *out the activities assisted under this title;*

24 (3) *research on, and the development of, guide-*
25 *lines to facilitate maximum interoperability, effi-*

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

3 (4) *research on, and the development of, edu-*
4 *cational applications of the most advanced and newly*
5 *emerging technologies;*

6 (5) *the development, demonstration, and evalua-*
7 *tion of applications of existing technology in pre-*
8 *school education, elementary and secondary edu-*
9 *cation, training and lifelong learning, and profes-*
10 *sional development of educational personnel;*

11 (6) *the development and evaluation of software*
12 *and other products, including multimedia television*
13 *programming, that incorporate advances in tech-*
14 *nology and help achieve the National Education*
15 *Goals, challenging State content standards and chal-*
16 *lenging State student performance standards;*

17 (7) *the development, demonstration, and evalua-*
18 *tion of model strategies for preparing teachers and*
19 *other personnel to use technology effectively to im-*
20 *prove teaching and learning;*

21 (8) *the development of model programs that dem-*
22 *onstrate the educational effectiveness of technology in*
23 *urban and rural areas and economically distressed*
24 *communities;*

1 (9) research on, and the evaluation of, the effec-
2 tiveness and benefits of technology in education giving
3 priority to research on, and evaluation of, such effec-
4 tiveness and benefits in elementary and secondary
5 schools;

6 (10) a biannual assessment of, and report to the
7 public regarding, the uses of technology in elementary
8 and secondary education throughout the United
9 States upon which private businesses and Federal,
10 State and local governments may rely for decision-
11 making about the need for, and provision of, appro-
12 priate technologies in schools, which assessment and
13 report shall use, to the extent possible, existing infor-
14 mation and resources;

15 (11) conferences on, and dissemination of infor-
16 mation regarding, the uses of technology in education;

17 (12) the development of model strategies to pro-
18 mote gender equity in the use of technology;

19 (13) encouraging collaboration between the De-
20 partment of Education and other Federal agencies in
21 the development, implementation, evaluation and
22 funding of applications of technology for education,
23 as appropriate; and

24 (14) such other activities as the Secretary deter-
25 mines will meet the purposes of this title.

1 (b) *SPECIAL RULES.*—

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

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

7 (A) *on a competitive basis; and*

8 (B) *pursuant to a peer review process.*

9 **SEC. 105. NON-FEDERAL SHARE.**

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

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

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

1 **SEC. 106. OFFICE OF TRAINING TECHNOLOGY TRANSFER.**

2 (a) *TRANSFER.*—

3 (1) *IN GENERAL.*—*The Office of Training Tech-*
4 *nology Transfer as established under section 6103 of*
5 *the Training Technology Transfer Act of 1988 (20*
6 *U.S.C. 5093) is transferred to the Office of Edu-*
7 *cational Technology.*

8 (2) *TECHNICAL AMENDMENT.*—*The first sentence*
9 *of section 6103(a) of the Training Technology Trans-*
10 *fer Act of 1988 (20 U.S.C. 5093(a)) is amended by*
11 *striking “Office of Educational Research and Im-*
12 *provement” and inserting “Office of Educational*
13 *Technology”.*

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

18 **“SEC. 6108. AUTHORIZATION OF APPROPRIATIONS.**

19 *“There are authorized to be appropriated \$3,000,000*
20 *for fiscal year 1995, and such sums as may be necessary*
21 *for each of the fiscal years 1996 through 1999, to carry out*
22 *this chapter.”.*

23 **SEC. 107. AUTHORIZATION OF APPROPRIATIONS.**

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

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

3 ***TITLE II—STATE PLANNING FOR***
 4 ***IMPROVING STUDENT***
 5 ***ACHIEVEMENT THROUGH IN-***
 6 ***TEGRATION OF TECHNOLOGY***
 7 ***INTO THE CURRICULUM***

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

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

16 *(b) PROGRAM AUTHORIZED.—*

17 *(1) AUTHORITY.—The Secretary shall award*
 18 *grants in accordance with allocations under para-*
 19 *graph (2) to each State educational agency that, as*
 20 *part of its application under section 305 of the Goals*
 21 *2000: Educate America Act, requests a grant to de-*
 22 *velop (or continue the development of), and submits*
 23 *as part of the State improvement plan described in*
 24 *section 306 of such Act, a systemic statewide plan to*
 25 *increase the use of state-of-the-art technologies that*

1 *enhance elementary and secondary student learning*
2 *and professional development in support of the Na-*
3 *tional Education Goals and challenging standards.*

4 (2) *FORMULA.—From the amount appropriated*
5 *pursuant to the authority of subsection (f) in each fis-*
6 *cal year, each State educational agency with an ap-*
7 *plication approved under section 305 of the Goals*
8 *2000: Educate America Act shall receive a grant*
9 *under paragraph (1) in such year in an amount de-*
10 *termined on the same basis as allotments are made to*
11 *State educational agencies under subsections (b) and*
12 *(c) of section 304 of such Act for such year, except*
13 *that each such State shall receive at least 1½ percent*
14 *of the amount appropriated pursuant to such author-*
15 *ity or \$75,000, whichever is greater.*

16 (3) *DURATION.—A State educational agency*
17 *may receive assistance under this section for not more*
18 *than 2 fiscal years.*

19 (c) *PLAN OBJECTIVES.—Each State educational agen-*
20 *cy shall use funds received under this section to develop and,*
21 *if the Secretary has approved the systemic statewide plan,*
22 *to implement such plan. Such plan shall have as its objec-*
23 *tives—*

24 (1) *the promotion of higher student achievement*
25 *through the use of technology in education;*

1 (2) *the participation of all schools and school*
2 *districts in the State, especially those schools and dis-*
3 *tricts with a high percentage of disadvantaged stu-*
4 *dents;*

5 (3) *the development and implementation of a*
6 *cost-effective, high-speed, statewide, interoperable,*
7 *wide-area-communication educational technology sup-*
8 *port system for elementary and secondary schools*
9 *within the State, particularly for such schools in*
10 *rural areas; and*

11 (4) *the promotion of shared usage of equipment,*
12 *facilities, and other technology resources by adult*
13 *learners during after-school hours.*

14 (d) *PLAN REQUIREMENTS.—At a minimum, each sys-*
15 *temic statewide plan shall—*

16 (1) *be developed by a task force that—*

17 (A) *includes among its members experts in*
18 *the educational use of technology and representa-*
19 *tives of the State panel described in section*
20 *306(b) of the Goals 2000: Educate America Act;*
21 *and*

22 (B) *ensures that such plan is integrated*
23 *into the State improvement plan described in*
24 *section 306 of the Goals 2000: Educate America*
25 *Act;*

1 (2) be developed in collaboration with the Gov-
2 ernor, representatives of the State legislature, the
3 State board of education, institutions of higher edu-
4 cation, appropriate State agencies, local educational
5 agencies, public and private telecommunication enti-
6 ties, parents, public and school libraries, students,
7 adult literacy providers, and leaders in the field of
8 technology, through a process of statewide grassroots
9 outreach to local educational agencies and schools in
10 the State;

11 (3) identify and describe the requirements for in-
12 troducing state-of-the-art technologies into the class-
13 room and school library in order to enhance edu-
14 cational curricula, including the installation and on-
15 going maintenance of basic connections, hardware
16 and the necessary support materials;

17 (4) describe how the application of advanced
18 technologies in the schools will enhance student learn-
19 ing, provide greater access to individualized instruc-
20 tion, promote the strategies described in section
21 306(d) of the Goals 2000: Educate America Act, and
22 help make progress toward the achievement of the Na-
23 tional Education Goals;

24 (5) describe how the ongoing training of edu-
25 cational personnel will be provided;

1 (6) describe the resources necessary, and proce-
2 dures, for providing ongoing technical assistance to
3 carry out such plan;

4 (7) provide for the dissemination on a statewide
5 basis of exemplary programs and practices relating to
6 the use of technology in education;

7 (8) establish a funding estimate (including a
8 statement of likely funding sources) and a schedule for
9 the development and implementation of such plan;

10 (9) describe how the State educational agency
11 will assess the impact of implementing such plan on
12 student achievement and aggregate achievement for
13 schools;

14 (10) describe how the State educational agency
15 and local educational agencies in the State will co-
16 ordinate and cooperate with business and industry,
17 and with public and private telecommunications enti-
18 ties;

19 (11) describe how the State educational agency
20 will promote the purchase of equipment by local edu-
21 cational agencies that, when placed in schools, will
22 meet the highest possible level of interoperability and
23 open system design;

1 (12) describe how the State educational agency
2 will consider using existing telecommunications infra-
3 structure and technology resources;

4 (13) describe how the State educational agency
5 will apply the uses of technology to meet the needs of
6 children from low-income families; and

7 (14) describe the process through which such
8 plan will be reviewed and updated periodically.

9 (e) *REPORTS.*—Each State educational agency receiv-
10 ing a grant under this section shall submit a report to the
11 Secretary within 1 year of the date such agency submits
12 to the Secretary its systemic statewide plan under this sec-
13 tion. Such report shall—

14 (1) describe the State’s progress toward imple-
15 mentation of the provisions of such plan;

16 (2) describe any revisions to the State’s long-
17 range plans for technology;

18 (3) describe the extent to which resources pro-
19 vided pursuant to such plan are distributed among
20 schools to promote the strategies described in section
21 306(d) of the Goals 2000: Educate America Act; and

22 (4) include any other information the Secretary
23 deems appropriate.

24 (f) *AUTHORIZATION OF APPROPRIATIONS.*—There are
25 authorized to be appropriated \$10,000,000 for fiscal year

1 1994, and such sums as may be necessary for fiscal year
 2 1995, to carry out this section.

3 **TITLE III—SCHOOL TECH-**
 4 **NOLOGY RESOURCES, TECH-**
 5 **NICAL SUPPORT, AND PRO-**
 6 **FESSIONAL DEVELOPMENT**

7 **SEC. 301. STATEMENT OF PURPOSE.**

8 *It is the purpose of this title to provide Federal assist-*
 9 *ance in the form of grants to support—*

10 *(1) the acquisition of equipment and supporting*
 11 *resources, training, and maintenance of technology;*
 12 *and*

13 *(2) regional consortia to enable such consortia to*
 14 *provide professional development and technical assist-*
 15 *ance that fosters integration of technology into the*
 16 *kindergarten through 12th grade classrooms, libraries,*
 17 *and school library media centers.*

18 **SEC. 302. SCHOOL TECHNOLOGY RESOURCE GRANTS.**

19 *(a) GRANTS AUTHORIZED.—*

20 *(1) AUTHORITY.—The Secretary, through the Of-*
 21 *fice of Educational Technology, shall award grants to*
 22 *State educational agencies having a systemic state-*
 23 *wide plan that meets such criteria as the Secretary*
 24 *may establish in order to enable such agencies to pro-*
 25 *vide assistance to local educational agencies that have*

1 *the highest percentages of children in poverty and*
2 *demonstrate the greatest need for technology, in order*
3 *to enable such local educational agencies, for the bene-*
4 *fit of school sites served by such local educational*
5 *agencies, to—*

6 *(A) purchase quality technology resources;*

7 *(B) install various linkages necessary to ac-*
8 *quire connectivity;*

9 *(C) integrate technology into the curriculum*
10 *in order to improve student learning and*
11 *achievement;*

12 *(D) provide teachers and library media per-*
13 *sonnel with training or access to training;*

14 *(E) provide administrative and technical*
15 *support and services that improve student learn-*
16 *ing through enriched technology-enhanced re-*
17 *sources, including library media resources;*

18 *(F) promote the sharing, distribution, and*
19 *application of educational technologies that are*
20 *determined to be effective in individual schools;*
21 *and*

22 *(G) assist the community in providing lit-*
23 *eracy-related services.*

24 *(2) AMOUNT.—(A) Except as provided in sub-*
25 *paragraph (B), the Secretary shall award grants*

1 *under this section to each State educational agency in*
2 *an amount which bears the same relationship to the*
3 *amount appropriated pursuant to the authority of*
4 *subsection (b) as the amount such State received*
5 *under chapter 1 of title I of the Elementary and Sec-*
6 *ondary Education Act of 1965 bears to the amount*
7 *received under such chapter by all States.*

8 *(B) No State educational agency shall receive a*
9 *grant pursuant to subparagraph (A) in any fiscal*
10 *year in an amount which is less than one-half of 1*
11 *percent of the amount appropriated pursuant to the*
12 *authority of subsection (b) for such year.*

13 *(3) IDENTIFICATION OF LOCAL EDUCATIONAL*
14 *AGENCIES; TECHNICAL ASSISTANCE.—Each State edu-*
15 *cational agency receiving a grant under this section*
16 *shall—*

17 *(A) identify the local educational agencies*
18 *served by the State educational agency that—*

19 *(i) have the highest percentage of chil-*
20 *dren in poverty; and*

21 *(ii) demonstrate to such State edu-*
22 *cational agency the greatest need for tech-*
23 *nical assistance in developing the applica-*
24 *tion described in subsection (d); and*

1 (B) offer such technical assistance to such
2 local educational agencies.

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

8 (b) *AUTHORIZATION OF APPROPRIATIONS.*—There are
9 authorized to be appropriated \$200,000,000 for fiscal year
10 1995, and such sums as may be necessary for the 4 succeed-
11 ing fiscal years, to carry out this section.

12 (c) *LOCAL USES OF GRANT FUNDS.*—Each local edu-
13 cational agency receiving assistance under this section may
14 use such assistance—

15 (1) to acquire connectivity linkages, and re-
16 sources and services, including the acquisition of
17 hardware and software, for use by teachers, students
18 and library media personnel in the classroom or in
19 school library media centers, in order to improve stu-
20 dent learning by supporting the instructional pro-
21 gram offered by such agency to ensure that students
22 in schools will have meaningful access on a regular
23 basis to such linkages, resources and services;

24 (2) for ongoing professional development in the
25 integration of quality instructional educational tech-

1 *nologies into school curriculum and long-term plan-*
2 *ning for implementing educational technologies; and*

3 *(3) to acquire connectivity with wide area net-*
4 *works for purposes of accessing information and edu-*
5 *cational programming sources.*

6 *(d) LOCAL APPLICATIONS.—Each local educational*
7 *agency desiring assistance under this section shall submit*
8 *an application consistent with the objectives of the systemic*
9 *statewide plan to the State educational agency at such time*
10 *and in such manner as such agency may prescribe. Such*
11 *application, at a minimum, shall—*

12 *(1) include a strategic, long-range (3- to 5-year),*
13 *plan that includes—*

14 *(A) a description of the type of technologies*
15 *to be acquired, including specific provisions for*
16 *interoperability among components of such tech-*
17 *nologies and, to the extent practicable, with ex-*
18 *isting technologies;*

19 *(B) an explanation of how the acquired*
20 *technologies will be integrated into the curricu-*
21 *lum to help the local educational agency enhance*
22 *teaching, training, and student achievement;*

23 *(C) an explanation of how programs will be*
24 *developed in collaboration with existing adult*
25 *literacy services providers to maximize the use of*

1 *such technologies at times other than the regular*
2 *school day;*

3 *(D)(i) a description of how the local edu-*
4 *cational agency will ensure ongoing, sustained*
5 *professional development for teachers, adminis-*
6 *trators, and school library media personnel*
7 *served by the local educational agency to further*
8 *the use of technology in the classroom or library*
9 *media center; and*

10 *(ii) a list of the source or sources of ongoing*
11 *training and technical assistance available to*
12 *schools, teachers and administrators served by*
13 *the local educational agency, such as State tech-*
14 *nology offices, intermediate educational support*
15 *units, regional educational laboratories or insti-*
16 *tutions of higher education;*

17 *(E) a description of the supporting re-*
18 *sources, such as services, software and print re-*
19 *sources, which will be acquired to ensure success-*
20 *ful and effective use of technologies acquired*
21 *under this section;*

22 *(F) the projected timetable for implementing*
23 *such plan in schools;*

1 (G) the projected cost of technologies to be
2 acquired and related expenses needed to imple-
3 ment such plan; and

4 (H) a description of how the local edu-
5 cational agency will coordinate the technology
6 provided pursuant to this title with other grant
7 funds available for technology from State and
8 local sources;

9 (2) describe how the local educational agency
10 will involve parents, public libraries, business leaders
11 and community leaders in the development of such
12 plan;

13 (3) describe how the acquired instructionally
14 based technologies will help the local educational
15 agency—

16 (A) promote equity in education in order to
17 support challenging State content standards and
18 challenging State student performance standards
19 that may be developed; and

20 (B) provide access for both teachers and stu-
21 dents to the best teaching practices and curricu-
22 lum resources through technology; and

23 (4) describe a process for the ongoing evaluation
24 of how technologies acquired under this section—

1 (A) will be integrated into the school cur-
2 riculum; and

3 (B) will affect student achievement and
4 progress toward meeting the National Education
5 Goals and any challenging State content stand-
6 ards and challenging State student performance
7 standards that may be developed.

8 **SEC. 303. REGIONAL TECHNICAL SUPPORT AND PROFES-**
9 **SIONAL DEVELOPMENT.**

10 (a) GRANTS AUTHORIZED.—

11 (1) AUTHORITY.—The Secretary, through the Of-
12 fice of Educational Technology, shall make grants, on
13 a competitive basis, to regional educational tech-
14 nology assistance consortia in accordance with the
15 provisions of this section. In awarding grants under
16 this section, the Secretary shall ensure that each geo-
17 graphic region of the United States shall be served by
18 such a consortium.

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

21 (A) be composed of State educational agen-
22 cies, institutions of higher education, nonprofit
23 organizations, or a combination thereof; and

24 (B) in cooperation with State and local
25 educational agencies, develop a regional program

1 *that addresses professional development, tech-*
2 *nical assistance, and information resource dis-*
3 *semination, with special emphasis on meeting*
4 *the documented needs of educators and learners*
5 *in the region.*

6 (3) *SPECIAL RULE.*—*Each consortium receiving*
7 *a grant under this section shall use not less than 80*
8 *percent of the grant funds to carry out paragraph (2)*
9 *of subsection (b).*

10 (b) *FUNCTIONS.*—

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

13 (A) *collaborate with State educational agen-*
14 *cies and local educational agencies requesting*
15 *collaboration, in the development of systemic*
16 *statewide plans described in section 316 of the*
17 *Goals 2000: Educate America Act, particularly*
18 *in the development of strategies for assisting*
19 *those schools with the highest percentages of dis-*
20 *advantaged students with little or no access to*
21 *technology in the classroom;*

22 (B) *provide information, in coordination*
23 *with information available from the Secretary,*
24 *to States, local educational agencies, and schools*
25 *on the types and features of various educational*

1 *technology equipment and software available,*
2 *evaluate and make recommendations on equip-*
3 *ment and software that support the National*
4 *Education Goals and are suited for a school's*
5 *particular needs, and compile and share infor-*
6 *mation regarding creative and effective applica-*
7 *tions of technology in the classroom in order to*
8 *support the purposes of this Act;*

9 *(C) collaborate with such State educational*
10 *agencies, local educational agencies, or schools,*
11 *requesting to participate in the tailoring of soft-*
12 *ware programs and other supporting materials*
13 *to meet State curriculum standards (if a State*
14 *has such standards) and individual needs of*
15 *schools and students; and*

16 *(D) provide technical assistance to facilitate*
17 *use of the electronic dissemination networks by*
18 *State and local educational agencies and schools*
19 *throughout the region.*

20 *(2) PROFESSIONAL DEVELOPMENT.—Each con-*
21 *sortium receiving a grant under this section shall—*

22 *(A) develop and implement, in collaboration*
23 *with State educational agencies and institutions*
24 *of higher education, technology specific, ongoing*
25 *professional development, such as—*

1 (i) intensive school year and summer
2 workshops that use teachers to train other
3 teachers; and

4 (ii) distance educational professional
5 development, including—

6 (I) interactive satellite training
7 telecourses using researchers, educators,
8 and telecommunications personnel who
9 have experience in developing, imple-
10 menting, or operating educational and
11 instructional technology as a learning
12 tool;

13 (II) onsite courses teaching teach-
14 ers to use educational and instruc-
15 tional technology and to develop their
16 own instructional materials for effec-
17 tively incorporating technology and
18 programming in their own classrooms;

19 (III) methods for successful inte-
20 gration of instructional technology into
21 the curriculum in order to improve
22 student learning and achievement; and

23 (IV) video conferences and semi-
24 nars which offer professional develop-
25 ment through peer interaction with ex-

1 *perts as well as other teachers using*
2 *technologies in their classrooms;*

3 *(B) develop training resources that—*

4 *(i) are relevant to the needs of the re-*
5 *gion and schools within the region;*

6 *(ii) are relevant to the needs of adult*
7 *literacy staff and volunteers, including on-*
8 *site courses on how to use instructional*
9 *technology and developing instructional ma-*
10 *terials for adult learning; and*

11 *(iii) are aligned with the needs of*
12 *teachers and administrators in the region,*
13 *including teachers and administrators from*
14 *public and private schools;*

15 *(C) establish a repository of professional de-*
16 *velopment and technical assistance resources;*

17 *(D) identify and link technical assistance*
18 *providers to State and local educational agen-*
19 *cies, as needed;*

20 *(E) provide followup to ensure that train-*
21 *ing, professional development, and technical as-*
22 *sistance meet the needs of educators and students*
23 *served by the region; and*

24 *(F) assist colleges and universities within*
25 *the region to develop and implement preservice*

1 *training programs for students enrolled in teach-*
2 *er education programs.*

3 (3) *INFORMATION AND RESOURCE DISSEMINA-*
4 *TION.—Each consortium receiving a grant under this*
5 *section shall—*

6 (A) *assist State and local educational agen-*
7 *cies in the identification and procurement of fi-*
8 *nancial, technological and human resources*
9 *needed to implement technology plans;*

10 (B) *provide outreach, and, at the request of*
11 *a State or local educational agency, work with*
12 *such agency to assist in the development and val-*
13 *idation of instructionally based technology edu-*
14 *cation resources; and*

15 (C) *coordinate activities and establish part-*
16 *nerships with organizations and institutions of*
17 *higher education that represent the interests of*
18 *the region as such interests pertain to the appli-*
19 *cation of technology in teaching, learning, in-*
20 *structional management, dissemination, collec-*
21 *tion and distribution of educational statistics,*
22 *and the transfer of student information.*

23 (4) *COORDINATION.—Each consortium receiving*
24 *a grant under this section shall work collaboratively,*
25 *and coordinate the services the consortium provides,*

1 *with appropriate entities assisted in whole or in part*
2 *by the Department of Education.*

3 (5) *AUTHORIZATION OF APPROPRIATIONS.—*
4 *There are authorized to be appropriated \$50,000,000*
5 *for the fiscal year 1995, and such sums as may be*
6 *necessary for each of the 4 succeeding fiscal years, to*
7 *carry out this section.*

8 ***TITLE IV—EDUCATIONAL TECH-***
9 ***NOLOGY PRODUCT DEVELOP-***
10 ***MENT, PRODUCTION, AND***
11 ***DISTRIBUTION***

12 ***SEC. 401. STATEMENT OF PURPOSE.***

13 *It is the purpose of this title to support development,*
14 *production, and distribution of technology-enhanced cur-*
15 *riculum, and instruction and administrative support re-*
16 *sources and services, by—*

17 (1) *establishing as a priority for federally sup-*
18 *ported education technology programs the develop-*
19 *ment (as opposed to research) of such programs;*

20 (2) *authorizing support for the development, pro-*
21 *duction and distribution of technology-enhanced in-*
22 *structional resources and services under this title; and*

23 (3) *reauthorizing the Star Schools Program As-*
24 *stance Act.*

1 **SEC. 402. EDUCATIONAL TECHNOLOGY PRODUCT DEVELOP-**
2 **MENT.**

3 (a) *PURPOSE.*—It is the purpose of this section to—

4 (1) *support development of curriculum-based*
5 *learning resources using state-of-the-art technologies*
6 *and techniques designed to improve student learning;*
7 *and*

8 (2) *support development of long-term comprehen-*
9 *sive instructional programming and associated sup-*
10 *port resources that ensure maximum access by all*
11 *educational institutions.*

12 (b) *FEDERAL ASSISTANCE AUTHORIZED.*—

13 (1) *AUTHORITY.*—The Secretary, through the Of-
14 *fice of Educational Technology, shall award grants,*
15 *on a competitive basis, to eligible consortia to pay the*
16 *Federal share of the cost of the development, produc-*
17 *tion, and distribution of instructional programming*
18 *for students, and the development of programming for*
19 *teachers, which incorporates state-of-the-art applica-*
20 *tions of advanced technology-enhanced learning re-*
21 *sources, including educational radio and television.*

22 (2) *ELIGIBLE CONSORTIUM.*—For the purpose of
23 *this subsection the term “eligible consortium” means*
24 *a consortium—*

25 (A) *that shall include—*

1 (i) a State or local educational agency;

2 and

3 (ii) a business, industry or tele-

4 communications entity; and

5 (B) that may include—

6 (i) a public or private nonprofit orga-

7 nization; or

8 (ii) a postsecondary institution.

9 (3) *PRIORITY.*—In awarding grants under this
10 section, the Secretary shall give priority to applica-
11 tions describing programs or systems that are devel-
12 oped—

13 (A) so that the program or system may be
14 adapted and applied nationally at a reasonable
15 cost over a broad technology platform;

16 (B) to raise the achievement levels of all
17 students, particularly students who are not real-
18 izing their potential;

19 (C) in consultation with classroom teachers;

20 (D) through consultation and collaboration
21 with appropriate education entities in designing
22 the program or system to ensure relevance to the
23 voluntary national content standards, the vol-
24 untary national student performance standards
25 and State curriculum frameworks; and

1 (E) so that the program or system can be
2 adapted for use by adults in need of literacy
3 services, including English as a second language
4 and preparation for a high school diploma or its
5 equivalent.

6 (4) *MATCHING REQUIREMENT.*—The Secretary
7 may require any recipient of a grant or contract
8 under this title to share in the cost of the activities
9 assisted under such grant or contract, which non-Fed-
10 eral share shall be announced through a notice in the
11 Federal Register and may be in the form of cash or
12 in-kind contributions, fairly valued.

13 (5) *REQUIREMENTS FOR FEDERAL ASSIST-*
14 *ANCE.*—Each eligible consortium desiring Federal as-
15 sistance under this section shall submit an applica-
16 tion to the Secretary at such time and in such man-
17 ner as the Secretary may prescribe. Each application
18 shall include—

19 (A) a description of how the program or
20 system plans to improve the achievement levels of
21 students;

22 (B) a description of how the activities as-
23 sisted under this section will promote profes-
24 sional development of teachers and administra-
25 tors in the uses and applications of the program

1 or system, including the development of training
2 materials;

3 (C) a description of design, development,
4 field testing, evaluation, and distribution of
5 products, where appropriate;

6 (D) an assurance that the program or sys-
7 tem shall effectively serve a significant number
8 or percentage of economically disadvantaged stu-
9 dents;

10 (E) plans for dissemination to a wide audi-
11 ence of learners; and

12 (F) provisions for closed captioning or de-
13 scriptive video, where appropriate.

14 (c) *CONSUMER REPORT.*—The Secretary shall dissemi-
15 nate information about products developed pursuant to pro-
16 visions of this section to State and local educational agen-
17 cies, and other organizations or individuals that the Sec-
18 retary determines to be appropriate, through print and elec-
19 tronic media that are accessible to the education community
20 at large.

21 (d) *ROYALTIES.*—Notwithstanding any other provi-
22 sion of law, any royalties paid to any State or local edu-
23 cational agency as a result of assistance provided under this
24 section shall be used by such agency for further development

1 *of curriculum-based learning resources authorized by this*
 2 *section.*

3 (e) *PROGRAM RELATED OPERATING FUNDS FOR*
 4 *INSTRUCTIONAL TEACHER TRAINING (PROFIT).—The Sec-*
 5 *retary shall allow an eligible consortium to receive a finan-*
 6 *cial benefit from the distribution of programming assisted*
 7 *under this section. Such benefit shall be used by the eligible*
 8 *consortium to support further development of curriculum-*
 9 *specific programming and to provide greater access to a*
 10 *wider audience of educational programming.*

11 (f) *AUTHORIZATION OF FUNDS.—There are authorized*
 12 *to be appropriated \$50,000,000 for the fiscal year 1995, and*
 13 *such sums as may be necessary for each of the 4 succeeding*
 14 *fiscal years, to carry out this section.*

15 **SEC. 403. STAR SCHOOLS PROGRAM.**

16 *The Star Schools Program Assistance Act (20 U.S.C.*
 17 *4081 et seq.) is amended to read as follows:*

18 **“TITLE IX—STAR SCHOOLS**
 19 **PROGRAM**

20 **“SEC. 901. SHORT TITLE.**

21 *“This title may be cited as the ‘Star Schools Program*
 22 *Assistance Act’.*

23 **“SEC. 902. PURPOSE.**

24 *“It is the purpose of this title to encourage improved*
 25 *instruction in mathematics, science, and foreign languages*

1 *as well as other subjects, such as literacy skills and voca-*
2 *tional education, and to serve underserved populations, in-*
3 *cluding the disadvantaged, illiterate, limited-English pro-*
4 *ficient, and disabled, through a star schools program under*
5 *which grants are made to eligible telecommunication part-*
6 *nerships to enable such partnerships to—*

7 “(1) *develop, construct, acquire, maintain and*
8 *operate telecommunications audio and visual facili-*
9 *ties and equipment;*

10 “(2) *develop and acquire educational and in-*
11 *structional programming; and*

12 “(3) *obtain technical assistance for the use of*
13 *such facilities and instructional programming.*

14 **“SEC. 903. GRANTS AUTHORIZED.**

15 “(a) *AUTHORITY.—The Secretary, through the Office*
16 *of Educational Technology, is authorized to make grants,*
17 *in accordance with the provisions of this title, to eligible*
18 *telecommunications partnerships to pay the Federal share*
19 *of the cost of—*

20 “(1) *the development, construction, acquisition,*
21 *maintenance and operation of telecommunications fa-*
22 *ilities and equipment;*

23 “(2) *the development and acquisition of live,*
24 *interactive instructional programming;*

1 “(3) *the development and acquisition of*
2 *preservice and inservice teacher training programs*
3 *based on established research regarding teacher-to-*
4 *teacher mentoring, effective skill transfer, and ongo-*
5 *ing, in-class instruction;*

6 “(4) *the establishment of teleconferencing facili-*
7 *ties and resources for broadcasting interactive train-*
8 *ing to teachers;*

9 “(5) *obtaining technical assistance; and*

10 “(6) *the coordination of the design and*
11 *connectivity of telecommunications networks to reach*
12 *the greatest number of schools.*

13 “(b) *DURATION.—*

14 “(1) *IN GENERAL.—The Secretary shall award*
15 *grants pursuant to subsection (a) for a period of 5*
16 *years.*

17 “(2) *RENEWAL.—Grants awarded pursuant to*
18 *subsection (a) may be renewed for 1 additional 5-year*
19 *period.*

20 “(c) *AUTHORIZATION OF APPROPRIATIONS.—*

21 “(1) *IN GENERAL.—There are authorized to be*
22 *appropriated \$35,000,000 for fiscal year 1995, and*
23 *such sums as may be necessary for each of the 4 suc-*
24 *ceeding fiscal years, to carry out this title.*

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

3 “(d) *LIMITATIONS.*—

4 “(1) *AMOUNT.*—*A grant made to an eligible telecommunications partnership under this title shall not*
5 *exceed \$5,000,000 in any 1 fiscal year.*

6 “(2) *RESERVATIONS.*—

7 “(A) *INSTRUCTIONAL PROGRAMMING.*—*Not*
8 *less than 25 percent of the funds available to the*
9 *Secretary in any fiscal year under this title shall*
10 *be used for the cost of instructional programming.*

11 “(B) *FACILITIES AND EQUIPMENT.*—*Not less*
12 *than 25 percent of the funds available to the Secretary in any fiscal year under this title shall be*
13 *used for telecommunications facilities and equipment.*

14 “(3) *SPECIAL RULE.*—*Not less than 50 percent of*
15 *the funds available in any fiscal year under this title*
16 *shall be used for the cost of facilities, equipment,*
17 *teacher training or retraining, technical assistance, or*
18 *programming, for local educational agencies which*
19 *are eligible to receive assistance under chapter 1 of*
20
21
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23
24

1 *title I of the Elementary and Secondary Education*
2 *Act of 1965.*

3 “(e) *FEDERAL SHARE.*—

4 “(1) *IN GENERAL.*—*The Federal share for any*
5 *fiscal year shall be not more than 75 percent.*

6 “(2) *WAIVER.*—*The Secretary may reduce or*
7 *waive the requirements of the non-Federal share re-*
8 *quired under paragraph (1) for good cause, as deter-*
9 *mined by the Secretary.*

10 “(f) *COORDINATION.*—*The Department of Education,*
11 *the National Science Foundation, the Department of Agri-*
12 *culture, and any other Federal department or agency oper-*
13 *ating a telecommunications network for educational pur-*
14 *poses, shall coordinate the activities assisted under this title*
15 *with the activities of such department or agency relating*
16 *to a telecommunications network for educational purposes.*

17 “(g) *CLOSED CAPTIONING AND DESCRIPTIVE VIDEO.*—
18 *Each entity receiving funds under this title is encouraged*
19 *to provide—*

20 “(1) *closed captioning of the verbal content of*
21 *such program, where appropriate, to be broadcast by*
22 *way of line 21 of the vertical blanking interval, or by*
23 *way of comparable successor technologies; and*

24 “(2) *descriptive video of the visual content of*
25 *such program, as appropriate.*

1 **“SEC. 904. ELIGIBLE TELECOMMUNICATIONS PARTNER-**
2 **SHIPS.**

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

6 *“(1) a public agency or corporation established*
7 *for the purposes of developing and operating tele-*
8 *communications services to enhance educational op-*
9 *portunities provided by educational institutions,*
10 *teacher training centers, and other entities, except*
11 *that any such agency or corporation shall represent*
12 *the interest of elementary and secondary schools*
13 *which are eligible for assistance under chapter 1 of*
14 *title I of the Elementary and Secondary Education*
15 *Act of 1965; or*

16 *“(2) a partnership that will provide tele-*
17 *communications services and which includes 3 or*
18 *more of the following entities, at least 1 of which shall*
19 *be an agency described in subparagraph (A) or (B):*

20 *“(A) a local educational agency serving a*
21 *significant number of elementary and secondary*
22 *schools that are eligible for assistance under*
23 *chapter 1 of title 1 of the Elementary and Sec-*
24 *ondary Education Act of 1965 or elementary*
25 *and secondary schools operated for Indian chil-*

1 dren by the Department of Interior under section
2 1005(d) of such Act;

3 “(B) a State educational agency;

4 “(C) an institution of higher education or a
5 State higher education agency;

6 “(D) a teacher training center or academy
7 which—

8 “(i) provides teacher preservice and in-
9 service training; and

10 “(ii) receives Federal financial assist-
11 ance or has been approved by a State agen-
12 cy;

13 “(E)(i) a public or private entity with ex-
14 perience and expertise in the planning and oper-
15 ation of a telecommunications service, including
16 entities involved in telecommunications through
17 satellite, cable, telephone or computers; or

18 “(ii) a public broadcasting entity with such
19 experience; or

20 “(F) a public or private elementary or sec-
21 ondary school.

22 “(b) SPECIAL RULE.—An eligible telecommunications
23 partnership shall be organized on a statewide or multistate
24 basis.

1 **“SEC. 905. APPLICATIONS.**

2 “(a) *APPLICATIONS REQUIRED.*—Each eligible tele-
3 *communications partnership which desires to receive a*
4 *grant under section 903 shall submit an application to the*
5 *Secretary, at such time, in such manner, and containing*
6 *or accompanied by such information as the Secretary may*
7 *reasonably require.*

8 “(b) *CONTENTS OF THE APPLICATION.*—Each applica-
9 *tion submitted pursuant to subsection (a) shall—*

10 “(1) *describe the telecommunications facilities*
11 *and equipment and technical assistance for which as-*
12 *sistance is sought, which may include—*

13 “(A) *the design, development, construction,*
14 *acquisition, maintenance and operation of State*
15 *or multistate educational telecommunications*
16 *networks and technology resource centers;*

17 “(B) *microwave, fiber optics, cable, and sat-*
18 *ellite transmission equipment or any combina-*
19 *tion thereof;*

20 “(C) *reception facilities;*

21 “(D) *satellite time;*

22 “(E) *production facilities;*

23 “(F) *other telecommunications equipment*
24 *capable of serving a wide geographic area;*

25 “(G) *the provision of training services to*
26 *instructors who will be using the facilities and*

1 *equipment for which assistance is sought, includ-*
2 *ing training in using such facilities and equip-*
3 *ment and training in integrating programs into*
4 *the classroom curriculum; and*

5 *“(H) the development of educational pro-*
6 *gramming for use on a telecommunications net-*
7 *work;*

8 *“(2) in the case of an application for assistance*
9 *for instructional programming, describe the types of*
10 *programming which will be developed to enhance in-*
11 *struction and training and provide assurances that*
12 *such programming will be designed in consultation*
13 *with professionals (including classroom teachers) who*
14 *are experts in the applicable subject matter and grade*
15 *level;*

16 *“(3) demonstrate that the eligible telecommuni-*
17 *cations partnership has engaged in sufficient survey*
18 *and analysis of the area to be served to ensure that*
19 *the services offered by the eligible telecommunications*
20 *partnership will increase the availability of courses of*
21 *instruction in mathematics, science, and foreign lan-*
22 *guages, as well as other subjects to be offered;*

23 *“(4) describe the training policies for teachers*
24 *and other school personnel to be implemented to en-*

1 *sure the effective use of telecommunications facilities*
2 *and equipment for which assistance is sought;*

3 “(5) *provide assurances that the financial inter-*
4 *est of the United States in the telecommunications fa-*
5 *cilities and equipment will be protected for the useful*
6 *life of such facilities and equipment;*

7 “(6) *provide assurances that a significant por-*
8 *tion of any facilities and equipment, technical assist-*
9 *ance, and programming for which assistance is sought*
10 *for elementary and secondary schools will be made*
11 *available to schools or local educational agencies*
12 *which have a high percentage of children eligible to be*
13 *counted under chapter 1 of title I of the Elementary*
14 *and Secondary Education Act of 1965;*

15 “(7) *describe the manner in which traditionally*
16 *underserved students, such as students who are dis-*
17 *advantaged, limited-English proficient, disabled, or*
18 *illiterate, will participate in the benefits of the tele-*
19 *communications facilities, equipment, technical as-*
20 *sistance, and programming assisted under this title;*

21 “(8) *provide assurances that the applicant will*
22 *use the funds provided under this title to supplement*
23 *and not supplant funds otherwise available for the*
24 *purposes of this title;*

1 “(9) if any member of the consortia is receiving
2 assistance under section 302 of the Technology for
3 Education Act of 1994, describe how funds received
4 under this title will be coordinated with funds re-
5 ceived for educational technology in the classroom
6 under section 302 of such Act;

7 “(10) describe the activities or services for which
8 assistance is sought, including activities and services
9 such as—

10 “(A) providing facilities, equipment, train-
11 ing, services, and technical assistance described
12 in paragraphs (1), (2), (4) and (7);

13 “(B) making programs accessible to indi-
14 viduals with disabilities through mechanisms
15 such as closed captioning and descriptive video
16 services;

17 “(C) linking networks together, for example,
18 around an issue of national importance, such as
19 national elections;

20 “(D) sharing curriculum resources between
21 networks and development of program guides
22 which demonstrate cooperative, cross-network
23 listing of programs for specific curriculum areas;

24 “(E) providing teacher and student support
25 services including classroom and training sup-

1 *port materials which permit student and teacher*
2 *involvement in the live interactive distance*
3 *learning telecasts;*

4 *“(F) incorporating community resources,*
5 *such as libraries and museums, into instruc-*
6 *tional programs;*

7 *“(G) providing teacher training to early*
8 *childhood development and Head Start teachers*
9 *and staff;*

10 *“(H) providing teacher training to voca-*
11 *tional education teachers and staff;*

12 *“(I) providing teacher training on proposed*
13 *or established voluntary national content stand-*
14 *ards in mathematics and science and other dis-*
15 *ciplines as such standards are developed;*

16 *“(J) providing programs for adults at times*
17 *other than the regular school day in order to*
18 *maximize the use of telecommunications facilities*
19 *and equipment; and*

20 *“(K) providing parent education programs*
21 *during and after the regular school day which*
22 *reinforce the student’s course of study and ac-*
23 *tively involve parents in the learning process;*
24 *and*

1 “(11) include such additional assurances as the
2 Secretary may reasonably require.

3 “(c) APPROVAL OF APPLICATION; PRIORITY.—The Sec-
4 retary, in approving applications under this title, shall give
5 priority to applications which demonstrate that—

6 “(1) a concentration and quality of mathematics,
7 science, and foreign languages resources which, by
8 their distribution through the eligible telecommuni-
9 cations partnership, will offer significant new edu-
10 cational opportunities to network participants, par-
11 ticularly to traditionally underserved populations
12 and areas with scarce resources and limited access to
13 courses in mathematics, science, and foreign lan-
14 guages;

15 “(2) the eligible telecommunications partnership
16 has secured the direct cooperation and involvement of
17 public and private educational institutions, State and
18 local government, and industry in planning the net-
19 work;

20 “(3) the eligible telecommunications partnership
21 will serve the broadest range of institutions, including
22 in the case of elementary and secondary schools, those
23 elementary and secondary schools having a signifi-
24 cant number of students eligible to be counted under
25 chapter 1 of title I of the Elementary and Secondary

1 *Education Act of 1965, programs providing instruc-*
2 *tion outside of the school setting, institutions of higher*
3 *education, teacher training centers, research insti-*
4 *tutes, and private industry;*

5 *“(4) a significant number of educational institu-*
6 *tions have agreed to participate or will participate in*
7 *the use of the telecommunications system for which*
8 *assistance is sought;*

9 *“(5) the eligible telecommunications partnership*
10 *will have substantial academic and teaching capabili-*
11 *ties, including the capability of training, retraining,*
12 *and inservice upgrading of teaching skills and the ca-*
13 *pability to provide professional development leading*
14 *to comprehensive effective instructional strategies,*
15 *outcomes-based curriculum and parenting practices;*

16 *“(6) the eligible telecommunications partnership*
17 *will—*

18 *“(A) provide a comprehensive range of*
19 *courses for educators to teach instructional strat-*
20 *egies for students with different skill levels;*

21 *“(B) provide training to participating edu-*
22 *cators in ways to integrate telecommunications*
23 *courses into existing school curriculum; and*

24 *“(C) provide instruction for students, teach-*
25 *ers, and parents;*

1 “(7) the eligible telecommunications partnership
2 will serve a multistate area;

3 “(8) the eligible telecommunications partnership
4 will give priority to the provision of equipment and
5 linkages to isolated areas;

6 “(9) a telecommunications entity (such as a sat-
7 ellite, cable, telephone, computer, or public or private
8 television stations) will participate in the partnership
9 and will donate equipment or in kind services for
10 telecommunications linkages; and

11 “(10) the eligible telecommunications partner-
12 ship will, in providing services with assistance under
13 this title, meet the needs of groups of individuals tra-
14 ditionally excluded from careers in mathematics and
15 science because of discrimination, inaccessibility, or
16 economically disadvantaged backgrounds.

17 “(d) GEOGRAPHIC DISTRIBUTION.—In approving ap-
18 plications under this title, the Secretary shall assure an eq-
19 uitable geographic distribution of grants under this title.

20 **“SEC. 906. LEADERSHIP AND EVALUATION ACTIVITIES.**

21 “(a) RESERVATION.—From the amount appropriated
22 pursuant to the authority of section 903(c)(1) in each fiscal
23 year, the Secretary may reserve not more than 5 percent
24 of such amount for national leadership, evaluation, and
25 peer review activities.

1 “(b) *METHOD OF FUNDING.*—*The Secretary may fund*
2 *the activities described in subsection (a) directly or through*
3 *grants, contracts, and cooperative agreements.*

4 “(c) *USES OF FUNDS.*—

5 “(1) *LEADERSHIP.*—*Funds reserved for leader-*
6 *ship activities under subsection (a) may be used for—*

7 “(A) *disseminating information, including*
8 *lists and descriptions of services available from*
9 *recipients; and*

10 “(B) *other activities designed to enhance the*
11 *quality of distance learning activities nation-*
12 *wide.*

13 “(2) *EVALUATION.*—*Funds reserved for evalua-*
14 *tion activities under subsection (a) may be used to*
15 *conduct independent evaluations of the activities as-*
16 *sisted under this title and of distance learning in gen-*
17 *eral, including—*

18 “(A) *analyses of distance learning efforts,*
19 *including such efforts that are assisted under*
20 *this title and such efforts that are not assisted*
21 *under this title; and*

22 “(B) *comparisons of the effects, including*
23 *student outcomes, of different technologies in dis-*
24 *tance learning efforts.*

1 “(3) *PEER REVIEW.*—Funds reserved for peer re-
2 view activities under subsection (a) may be used for
3 peer review of—

4 “(A) applications for grants under this
5 title; and

6 “(B) activities assisted under this title.

7 **“SEC. 907. ADMINISTRATIVE PROVISIONS.**

8 “(a) *CONTINUING ELIGIBILITY.*—

9 “(1) *IN GENERAL.*—In order to be eligible to re-
10 ceive a grant under this title for a second 5-year
11 grant period an eligible telecommunications partner-
12 ship shall demonstrate in the application submitted
13 pursuant to section 905 that such partnership will—

14 “(A) continue to provide services in the sub-
15 ject areas and geographic areas assisted with
16 funds received under this title for the previous 5-
17 year grant period; and

18 “(B) use all grant funds received under this
19 title for the second 5-year grant period to pro-
20 vide expanded services by—

21 “(i) increasing the number of students,
22 schools or school districts served by the
23 courses of instruction assisted under this
24 title in the previous fiscal year;

1 “(ii) providing new courses of instruc-
2 tion; and

3 “(iii) serving new populations of un-
4 derserved individuals, such as children or
5 adults who are disadvantaged, have limited-
6 English proficiency, are disabled, are illit-
7 erate, or lack high school diplomas or their
8 equivalent.

9 “(2) *SPECIAL RULES.*—Grant funds received
10 pursuant to the application of paragraph (1) shall be
11 used to supplement and not supplant services pro-
12 vided by the recipient under this title in the previous
13 fiscal year.

14 “(b) *FEDERAL ACTIVITIES.*—The Secretary may assist
15 grant recipients under this title in acquiring satellite time,
16 where appropriate, as economically as possible.

17 **“SEC. 908. OTHER ASSISTANCE.**

18 “(a) *SPECIAL STATEWIDE NETWORK.*—

19 “(1) *IN GENERAL.*—The Secretary, through the
20 Office of Educational Technology, may provide assist-
21 ance to a statewide telecommunications network
22 under this subsection if such network—

23 “(A) provides 2-way full motion interactive
24 video and audio communications;

1 “(B) links together public colleges and uni-
2 versities and secondary schools throughout the
3 State; and

4 “(C) meets any other requirements deter-
5 mined appropriate by the Secretary.

6 “(2) STATE CONTRIBUTION.—A statewide tele-
7 communications network assisted under paragraph
8 (1) shall contribute, either directly or through private
9 contributions, non-Federal funds equal to not less
10 than 50 percent of the cost of such network.

11 “(b) SPECIAL LOCAL NETWORK.—

12 “(1) IN GENERAL.—The Secretary may provide
13 assistance, on a competitive basis, to a local edu-
14 cational agency or consortium thereof to enable such
15 agency or consortium to establish a high technology
16 demonstration program.

17 “(2) PROGRAM REQUIREMENTS.—A high tech-
18 nology demonstration program assisted under para-
19 graph (1) shall—

20 “(A) include 2-way full motion interactive
21 video, audio and text communications;

22 “(B) link together elementary and second-
23 ary schools, colleges, and universities;

24 “(C) provide parent participation and fam-
25 ily programs;

1 “(D) include a staff development program;
2 and

3 “(E) have a significant contribution and
4 participation from business and industry.

5 “(3) *SPECIAL RULE.*—Each high technology dem-
6 onstration program assisted under paragraph (1)
7 shall be of sufficient size and scope to have an effect
8 on meeting the National Education Goals.

9 “(4) *MATCHING REQUIREMENT.*—A local edu-
10 cational agency or consortium receiving a grant
11 under paragraph (1) shall provide, either directly or
12 through private contributions, non-Federal matching
13 funds equal to not less than 50 percent of the amount
14 of the grant.

15 **“SEC. 909. DEFINITIONS.**

16 “As used in this title—

17 “(1) the term ‘educational institution’ means an
18 institution of higher education, a local educational
19 agency, or a State educational agency;

20 “(2) the term ‘institution of higher education’
21 has the same meaning given that term by section
22 1201 of the Higher Education Act of 1965;

23 “(3) the term ‘local educational agency’ has the
24 same meaning given that term by section 1471 of the
25 Elementary and Secondary Education Act of 1965;

1 “(4) the term ‘instructional programming’
2 means courses of instruction, training courses, and
3 resources used in such instruction and training,
4 which have been prepared in audio and visual form
5 on tape, disc, film, live, and presented by means of
6 telecommunications devices;

7 “(5) the term ‘public broadcasting entity’ has the
8 same meaning given that term by section 397 of the
9 Communications Act of 1934;

10 “(6) the term ‘Secretary’ means the Secretary of
11 Education;

12 “(7) the term ‘State educational agency’ has the
13 same meaning given that term under section 1471 of
14 the Elementary and Secondary Education Act of
15 1965; and

16 “(8) the term ‘State’ means each of the several
17 States, the District of Columbia, the Commonwealth
18 of Puerto Rico, Guam, American Samoa, the Virgin
19 Islands, the Republic of the Marshall Islands, the Fed-
20 erated States of Micronesia, the Republic of Palau,
21 and the Commonwealth of the Northern Mariana Is-
22 lands.”.

1 **TITLE V—EDUCATIONAL APPLI-**
2 **CATIONS OF ADVANCED**
3 **TECHNOLOGIES AND NET-**
4 **WORKS**

5 **SEC. 501. STATEMENT OF PURPOSE.**

6 *It is the purpose of this title to—*

7 *(1) provide direction and support for the conduct*
8 *of research on advanced educational technologies;*

9 *(2) provide support for long-term comprehensive*
10 *educational applications of advanced high perform-*
11 *ance computer and communication technologies and*
12 *video technologies in support of the core subjects of the*
13 *National Education Goals;*

14 *(3) ensure that high performance computing and*
15 *telecommunications networks, including information*
16 *highways, are developed with due consideration to the*
17 *needs of elementary and secondary education, facili-*
18 *tate educational uses, and provide access to class-*
19 *rooms and libraries in elementary and secondary*
20 *schools, in order to improve student learning; and*

21 *(4) assess the effectiveness of technology in edu-*
22 *cation programs.*

1 **SEC. 502. RESEARCH ON EDUCATIONAL APPLICATIONS OF**
2 **ADVANCED TECHNOLOGIES.**

3 (a) *GENERAL AUTHORITY.*—The Secretary, consistent
4 with the overall national technology policy established by
5 the President, and in cooperation with other Federal de-
6 partments and agencies, is authorized to support research
7 on educational applications of advanced learning tech-
8 nologies.

9 (b) *GRANTS AUTHORIZED.*—The Secretary, through
10 the Office of Educational Technology, shall award grants
11 to or enter into contracts for research projects intended to
12 develop educational applications of advanced technologies.

13 (c) *APPLICATION.*—Each entity desiring assistance
14 under this section shall submit to the Secretary an applica-
15 tion at such time, in such manner and accompanied by
16 such information as the Secretary may reasonably require.
17 Each such application shall—

18 (1) *define clearly the scope and content of the*
19 *subject matter of the research and the relevance of the*
20 *advanced technology to such content;*

21 (2) *describe the potential market for both the*
22 *hardware and software developed under this section;*
23 *and*

24 (3) *assess the applications of the advanced tech-*
25 *nology in a way that will validate the technology's*
26 *impact on student learning and achievement.*

1 (d) *AUTHORIZATION OF APPROPRIATIONS.*—There are
2 authorized to be appropriated \$20,000,000 for fiscal year
3 1995, and such sums as may be necessary for each of the
4 4 succeeding fiscal years, to carry out this section.

5 **SEC. 503. HIGH PERFORMANCE EDUCATIONAL COMPUTING**
6 **AND TELECOMMUNICATIONS NETWORKS.**

7 (a) *AUTHORITY.*—

8 (1) *IN GENERAL.*—(A) The Secretary, consistent
9 with the overall national technology policy established
10 by the President, and in cooperation with other Fed-
11 eral departments and agencies, shall support the de-
12 velopment of an electronic network for the dissemina-
13 tion of educational information throughout the
14 United States, including information about effective
15 technology-enhanced programs, resources and services.

16 (B) In carrying out subparagraph (A) the Sec-
17 retary shall—

18 (i) to the extent possible, coordinate activi-
19 ties assisted under this section with other dis-
20 semination activities assisted by the Department
21 of Education in order to—

22 (I) avoid duplication; and

23 (II) utilize the existing resources of the
24 Department of Education;

1 (ii) consult with educators, State and local
2 educational agencies, telecommunications provid-
3 ers, and other appropriate education entities
4 throughout the United States to determine infor-
5 mation requirements and policies for the effective
6 dissemination of information;

7 (iii) provide access to the existing Depart-
8 ment of Energy FEDIX/MOLIS Information
9 System regarding information about excess
10 equipment (computers and supporting materials)
11 within the Federal Government that are avail-
12 able for transfer to elementary and secondary
13 schools; and

14 (iv) make use of existing networks or devel-
15 oping networks, to the extent possible.

16 (2) REQUIREMENTS; SPECIFICATIONS; AND PRO-
17 TOTYPE OPERATIONS.—The Secretary is authorized
18 to—

19 (A) identify educational high performance
20 computing and telecommunications network re-
21 quirements;

22 (B) develop specifications for the implemen-
23 tation of such requirements within any national
24 telecommunications network;

1 (C) establish prototype operations on exist-
2 ing networks to validate and further develop the
3 educational specifications which will facilitate
4 the use of such networks by kindergarten through
5 12th grade students, teachers, librarians, admin-
6 istrators, and parents;

7 (D) represent the needs and interests of ele-
8 mentary and secondary schools in the Federal
9 planning and development of a national infor-
10 mation infrastructure; and

11 (E) identify policy issues, such as commu-
12 nication rate structures and intellectual property
13 rights, that impact upon the ability of the public
14 schools to make effective use of the emerging in-
15 formation highways, and make recommendations
16 to the Secretary and the Congress regarding such
17 issues.

18 (b) *TYPES OF GRANTS.*—The Secretary, through the
19 Office of Educational Technology, shall award the following
20 types of grants:

21 (1) *REQUIREMENTS GRANTS.*—The Secretary
22 shall solicit proposals for and award grants to 1 or
23 more entities for the identification of educational high
24 performance computing and telecommunications net-

1 *work requirements. The solicitation shall request pro-*
2 *posals to—*

3 *(A) identify and describe existing and*
4 *planned educational high performance comput-*
5 *ing and telecommunications network efforts;*

6 *(B) identify potential uses of such networks*
7 *in kindergarten through 12th grade education by*
8 *schools throughout the United States;*

9 *(C) assess impediments to the development*
10 *of such networks in kindergarten through 12th*
11 *grade education, such as (i) technological im-*
12 *pediments, (ii) availability of technology-en-*
13 *hanced curriculum, instruction, and administra-*
14 *tive support resources and services in schools,*
15 *and (iii) parent, student, teacher and adminis-*
16 *trator attitudes toward technology-enhanced edu-*
17 *cation;*

18 *(D) assess the anticipated costs and benefits*
19 *to be derived from such network access in kinder-*
20 *garten through 12th grade education and rec-*
21 *ommend priorities for development of such net-*
22 *work; and*

23 *(E) identify the range of possible edu-*
24 *cational applications of, and potential sources of*
25 *funding for, both networks and information re-*

1 *sources and databases that exist or are being de-*
2 *veloped by other Federal departments or agen-*
3 *cies.*

4 (2) *SPECIFICATIONS GRANTS.*—*The Secretary*
5 *shall solicit proposals for and award grants to 1 or*
6 *more entities for the design and development of edu-*
7 *cational specifications which may be used to ensure*
8 *educational access to any national educational high*
9 *performance computing and telecommunications net-*
10 *work. The solicitation shall request proposals to—*

11 (A) *incorporate—*

12 (i) *the findings of the grant recipients*
13 *under paragraph (1); and*

14 (ii) *the priorities recommended for*
15 *such networks by the Secretary consistent*
16 *with the overall national technology policy*
17 *established by the President;*

18 (B) *provide for design alternatives and*
19 *specifications that address—*

20 (i) *linkage of schools and communities*
21 *with each other, with central resource cen-*
22 *ters, and with Federal and State agencies*
23 *over existing or planned telecommuni-*
24 *cations networks;*

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

4 (iii) integrated uses of two-way inter-
5 active voice, video, and data communica-
6 tions;

7 (iv) uses of interactive multimedia;

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

11 (vi) availability of needed technologies;

12 (vii) availability of support services;

13 and

14 (viii) assessment of the impact of pro-
15 posed educational access specifications on
16 existing or planned telecommunications net-
17 works; and

18 (C) provide comprehensive specifications
19 which will ensure educational access to any na-
20 tional educational high performance computing
21 and telecommunications network as the primary
22 deliverable product of the specifications grants
23 described in this paragraph.

24 (3) *PROTOTYPE DEVELOPMENT GRANTS.*—The
25 Secretary shall solicit proposals for and award grants

1 to 1 or more entities for prototype operations on ex-
2 isting networks in order to validate and further de-
3 velop the educational specifications which will facili-
4 tate use of existing or planned educational high per-
5 formance communicating and telecommunications
6 networks by kindergarten through 12th grade stu-
7 dents, teachers, librarians, administrators, and par-
8 ents. The solicitation shall request proposals to—

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

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

18 (C) provide for inservice training and tech-
19 nical assistance during the period of prototype
20 operations;

21 (D) provide provisions for the identification
22 and correction of operational problems during
23 the period of prototype operations (including de-
24 sign flaws);

- 1 (E) include a comprehensive evaluation of
2 all aspects of the prototype, including—
- 3 (i) design flaws;
 - 4 (ii) training requirements, including
5 resources and strategies for initial and on-
6 going training;
 - 7 (iii) technical support requirements;
 - 8 (iv) financing constraints;
 - 9 (v) availability and utility of informa-
10 tion resources and services accessed during
11 the prototype operations period;
 - 12 (vi) factors which enhanced or impeded
13 prototype operations; and
 - 14 (vii) an overall assessment of the im-
15 pact of such technology on the educational
16 process; and
- 17 (F) provide recommended revisions of the
18 Secretary's educational high performance com-
19 puting and telecommunications network speci-
20 fications based on findings of the comprehensive
21 evaluation of prototype operations.
- 22 (c) *TIMELINE.*—The Secretary, through the Office of
23 Educational Technology, shall award grants under this sec-
24 tion as follows:

1 (1) *REQUIREMENT GRANTS.*—*The Secretary shall*
2 *award requirement grants under subsection (c)(1)*
3 *within 6 months of the date of enactment of this Act.*

4 (2) *DEVELOPMENT OF DESIGN SPECIFICA-*
5 *TIONS.*—*The Secretary shall award grants under sub-*
6 *section (c)(2) within 18 months of the date of enact-*
7 *ment of this Act.*

8 (3) *PROTOTYPE OPERATIONS.*—*The Secretary*
9 *shall award grants under subsection (c)(3) within 30*
10 *months of the date of enactment of this Act.*

11 (d) *AUTHORIZATION OF APPROPRIATIONS.*—*There are*
12 *authorized to be appropriated \$7,500,000 for fiscal year*
13 *1995, \$7,500,000 for fiscal year 1996, and \$10,000,000 for*
14 *fiscal year 1997, to carry out this section.*

15 **TITLE VI—MISCELLANEOUS**

16 **SEC. 601. STUDY OF SYSTEMIC FUNDING ALTERNATIVES.**

17 *From amounts appropriated in any fiscal year pursu-*
18 *ant to the authority of section 231(d) of the Goals 2000:*
19 *Educate America Act, the Secretary, through the Office of*
20 *Educational Technology, shall conduct a study to evaluate,*
21 *and report to the Congress on, the feasibility of several alter-*
22 *native models for providing sustained and adequate fund-*
23 *ing for schools throughout the United States so that such*
24 *schools are able to acquire and maintain technology-en-*
25 *hanced curriculum, instruction, and administrative sup-*

1 *port resources and services. Such report shall be submitted*
2 *to the Congress not later than 1 year after the date of enact-*
3 *ment of this Act.*

4 **SEC. 602. PARTICIPATION OF PRIVATE SCHOOL CHILDREN.**

5 (a) *PARTICIPATION OF PRIVATE SCHOOL CHIL-*
6 *DREN.—To the extent consistent with the number of chil-*
7 *dren who are enrolled in private nonprofit elementary or*
8 *secondary schools located in a geographic area served by*
9 *an entity receiving assistance under this Act, such entity*
10 *shall, after consultation with appropriate private school*
11 *representatives, make provision for including services and*
12 *arrangements for the benefit of such children and teachers,*
13 *administrators, and other school staff serving such children*
14 *as will assure the equitable participation of such individ-*
15 *uals in the purposes and benefits of this Act.*

16 (b) *WAIVER.—If by reason of any provision of State*
17 *law an entity receiving assistance under this Act is prohib-*
18 *ited from providing for the participation of children and*
19 *teachers, administrators, and other school staff serving such*
20 *children from private nonprofit schools as required by sub-*
21 *section (a), or if the Secretary determines that such entity*
22 *has substantially failed or is unwilling to provide for such*
23 *participation on an equitable basis, the Secretary shall*
24 *waive such requirements and shall arrange for the provision*
25 *of services to such individuals.*

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