cility located at Oak Ridge National Laboratory, Oak Ridge, Tennessee.

(5) Spallation Neutron Source Project

The terms ''Spallation Neutron Source Project'' and ''Project'' means Department Project 99–E–334, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

(b) Spallation Neutron Source Project

(1) In general

The Secretary shall submit to Congress, as part of the annual budget request of the President submitted to Congress, a report on progress on the Spallation Neutron Source Project.

(2) Contents

The report shall include for the Project—

(A) a description of the achievement of milestones;

(B) a comparison of actual costs to estimated costs; and

(C) any changes in estimated Project costs or schedule.

(c) Spallation Neutron Source Facility plan

(1) In general

The Secretary shall develop an operational plan for the Spallation Neutron Source Facility that ensures that the Facility is employed to the full capability of the Facility in support of the study of advanced materials, nanoscience, and other missions of the Office of Science of the Department.

(2) Plan

The operational plan shall—

(A) include a plan for the operation of an effective scientific user program that—

(i) is based on peer review of proposals submitted for use of the Facility;

(ii) includes scientific and technical support to ensure that external users, including researchers based at institutions of higher education, are able to make full use of a variety of high quality scientific instruments; and

(iii) phases in systems upgrades to ensure that the Facility remains at the forefront of international scientific endeavors in the field of the Facility throughout the operating life of the Facility;

(B) include an ongoing program to develop new instruments that builds on the high performance neutron source and that allows neutron scattering techniques to be applied to a growing range of scientific problems and disciplines; and

(C) address the status of and, to the maximum extent practicable, costs and schedules for—

(i) full user mode operations of the Facility;

(ii) instrumentation built at the Facility during the operating phase through full use of the experimental hall, including the SING;

(iii) the SNS power upgrade; and

(iv) the SNS second target station.

(d) Authorization of appropriations

(1) Spallation Neutron Source Project

There is authorized to be appropriated to carry out the Spallation Neutron Source Project for the lifetime of the Project $1,411,700,000 for total project costs, of which—

(A) $1,192,700,000 shall be used for the costs of construction; and

(B) $219,000,000 shall be used for other Project costs.

(2) Spallation Neutron Source Facility

(A) In general

Except as provided in subparagraph (B), there is authorized to be appropriated for the Spallation Neutron Source Facility for—

(i) the SING, $75,000,000 for each of fiscal year 2007 through 2009; and

(ii) the SNS power upgrade, $160,000,000, to remain available until expended.

(B) Insufficient stockpiles of heavy water

If stockpiles of heavy water of the Department are insufficient to meet the needs of the Facility, there is authorized to be appropriated for the Facility $12,000,000 for fiscal year 2007.

(Pub. L. 109–58, title IX, §980, Aug. 8, 2005, 119 Stat. 905.)

§ 16321. Rare Isotope Accelerator

(a) Establishment

The Secretary shall construct and operate a Rare Isotope Accelerator. The Secretary shall commence construction no later than September 30, 2008.

(b) Authorization of appropriations

There are authorized to be appropriated to the Secretary such sums as may be necessary to carry out this section. The Secretary shall not spend more than $1,100,000,000 in Federal funds for all activities associated with the Rare Isotope Accelerator, prior to operation of the Accelerator.

(Pub. L. 109–58, title IX, §981, Aug. 8, 2005, 119 Stat. 907.)

§ 16322. Office of Scientific and Technical Information

The Secretary, through the Office of Scientific and Technical Information, shall maintain within the Department publicly available collections of scientific and technical information resulting from research, development, demonstration, and commercial applications activities supported by the Department.

(Pub. L. 109–58, title IX, §982, Aug. 8, 2005, 119 Stat. 907.)

§ 16323. Science and engineering education pilot program

(a) Establishment of pilot program

The Secretary shall award a grant to a Southeastern United States consortium of major research universities that currently advances science and education by partnering with National Laboratories, to establish a regional pilot program of its SEEK–16 program for enhancing scientific, technological, engineering, and mathematical literacy, creativity, and decision-making. The consortium shall include leading research universities, one or more universities

that train substantial numbers of elementary and secondary school teachers, and (where appropriate) National Laboratories.

(b) Program elements

The regional pilot program shall include—

(1) expanding strategic, formal partnerships among universities with strength in research, universities that train substantial numbers of elementary and secondary school teachers, and the private sector;

(2) combining Department expertise with one or more National Aeronautics and Space Administration Educator Resource Centers;

(3) developing programs to permit current and future teachers to participate in ongoing research projects at National Laboratories and research universities and to adapt lessons learned to the classroom;

(4) designing and implementing course work;

(5) designing and implementing a strategy for measuring and assessing progress under the program; and

(6) developing models for transferring knowledge gained under the pilot program to other institutions and areas of the United States.

(c) Categorization

A grant under this section shall be considered an authorized activity under section 7381b of this title.

(d) Report

No later than 2 years after the award of the grant, the Secretary shall transmit to Congress a report outlining lessons learned and, if determined appropriate by the Secretary, containing a plan for expanding the program throughout the United States.

(Pub. L. 109–58, title IX, §983, Aug. 8, 2005, 119 Stat. 907.)

§ 16324. Energy research fellowships

(a) Postdoctoral fellowship program

The Secretary shall establish a program under which the Secretary provides fellowships to encourage outstanding young scientists and engineers to pursue postdoctoral research appointments in energy research and development at institutions of higher education of their choice.

(b) Senior research fellowships

(1) In general

The Secretary shall establish a program under which the Secretary provides fellowships to allow outstanding senior researchers and their research groups in energy research and development to explore research and development topics of their choosing for a period of not less than 3 years, to be determined by the Secretary.

(2) Consideration

In providing a fellowship under the program described in paragraph (1), the Secretary shall consider—

(A) the past scientific or technical accomplishment of a senior researcher; and

(B) the potential for continued accomplishment by the researcher during the period of the fellowship.

(Pub. L. 109–58, title IX, §984, Aug. 8, 2005, 119 Stat. 908.)

§ 16325. Science and Technology Scholarship Program

(a) In general

The Secretary is authorized to establish a Science and Technology Scholarship Program to award scholarships to individuals that is designed to recruit and prepare students for careers in the Department and National Laboratories.

(b) Service requirement

The Secretary may require that an individual receiving a scholarship under this section serve as a full-time employee of the Department or a National Laboratory for a fixed period in return for receiving the scholarship.

(Pub. L. 109–58, title IX, §984A, Aug. 8, 2005, 119 Stat. 908.)

PART H—INTERNATIONAL COOPERATION

§ 16341. Western Hemisphere energy cooperation

(a) Program

The Secretary shall carry out a program to promote cooperation on energy issues with countries of the Western Hemisphere.

(b) Activities

Under the program, the Secretary shall fund activities to work with countries of the Western Hemisphere to—

(1) increase the production of energy supplies;

(2) improve energy efficiency; and

(3) assist in the development and transfer of energy supply and efficiency technologies that would have a beneficial impact on world energy markets.

(c) Participation by institutions of higher education

To the extent practicable, the Secretary shall carry out the program under this section with the participation of institutions of higher education so as to take advantage of the acceptance of institutions of higher education by countries of the Western Hemisphere as sources of unbiased technical and policy expertise when assisting the Secretary in—

(1) evaluating new technologies;

(2) resolving technical issues;

(3) working with those countries in the development of new policies; and

(4) training policymakers, particularly in the case of institutions of higher education that involve the participation of minority students, such as—

(A) Hispanic-serving institutions; and

(B) part B institutions.

(d) Authorization of appropriations

There are authorized to be appropriated to carry out this section—

(1) $10,000,000 for fiscal year 2007;

(2) $13,000,000 for fiscal year 2008; and

(3) $16,000,000 for fiscal year 2009.

(Pub. L. 109–58, title IX, §985, Aug. 8, 2005, 119 Stat. 908.)