

CAMPAIGN FOR ENVIRONMENTAL LITERACY

Directory of Federal Grant-Making Programs for Environmentally-Related Education

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Introduction

Purpose:

The *Directory of Federal Grant-Making Programs for Environmentally-Related Education* is designed to help meet the need of the environmental education community for easily accessible and reasonably comprehensive information about federal funding programs. It also helps enable the Campaign for Environmental Literacy to track and analyze government grant-making trends, and to provide this information to Members of Congress.

Overview:

The federal government supports environmentally-related education in essentially three ways. First, it provides scholarships, fellowships, internships and other such programs that fund or support individuals to further their education and training in environmentally-related fields. While this support is important, it is not included in this directory except in those cases where funding is granted to an organization or school rather than to the individual. Second, many agencies conduct their own environmentally-related education programs (some even estimate that more federal funds are spent on such in-house programs than on extramural grantmaking). While it is important to document and track these programs, this too is beyond the scope of this project. And third, it engages in extramural grant-making, which is the focus of this *Directory*.

Limitations:

However, assembling comprehensive information on federal environmentally-related education (EE) grantmaking programs is challenging for at least three reasons:

First, environmentally education is sufficiently complex and wide-ranging to extend beyond the mission, resources, and expertise of any single agency, instead cutting across a wide range of federal agencies which have identified EE as important to their agency mission¹. Thus the decentralized nature of federal EE programs creates significant barriers to analyzing the federal EE portfolio. At no time in the Congressional authorization or appropriations process is the EE grant-making portfolio examined as a whole, across the federal government. (And there are numerous impediments to coordination and informed priority setting across the federal government as well.)

Second, the vast majority of possible funding sources do not focus their programs primarily on EE. For example, EE organizations have successfully tapped funding programs at the Department of Defense and the National Institute of Environmental Health Science, and numerous other seemingly unlikely sources. *Note that only two federal grant programs are specifically focused on environmentally-related education (NOAA's Environmental Literacy Grants and EPA's Regional and National Environmental Education Grants), and they currently total less than \$10 million/year.*

¹ For example, "Environmental research, education, and scientific assessment should be one of NSF's highest priorities," according to the National Science Board (NSB, 2000, *Environmental Science and Engineering for the 21st Century: The Role of the National Science Foundation*).

Third, the limits of the broad field of environmentally-related education are difficult to sharply delineate. This Directory has chosen to define **environmentally-related education** as all forms of formal and informal education that seek to advance understanding of the various biological and physical components of the earth's environment and the interrelationships between the earth's environment and humankind.

The following areas are included in the definition of environmentally-related education:

- All sectors (undergraduate, graduate, training and career development, professional development, k-12, informal)
- Environmental, conservation, sustainability, ocean/marine, energy, geography, outdoor, earth, agricultural, wildlife, atmospheric/climate, geology, oceanography, environmental biology, forestry, environmental engineering, resource management, and environmental economics education.

The following areas are *not* included in the definition of environmentally-related education:

- Environmentally-related research
- Public information
- Most human health education programs unless focused on environmental health education
- Extraterrestrial environmental education (such as education about the atmospheres and geologies of other planets).

Finally, we plan to add a searchable copy of this directory soon to the CEL website (www.FundEE.org), thus enabling viewers to search by applicant category and more easily find programs that meet their interests.

We actively encourage all readers to contact us about any errors or omissions.

1. DEPARTMENT OF AGRICULTURE: *Cooperative State Research, Education and Extension Service*

A) Higher Education Challenge Grants

Agency: Department of Agriculture, Cooperative State Research, Education and Extension Service

Program Web Site: www.csrees.usda.gov/fo/fundview.cfm?fonum=1082

Program Sector Focus: Higher Education

Eligible Applicants: 1862 Land-Grant Institutions, 1890 Land-Grant Institutions, 1994 Land-Grant Institutions, Hispanic-Serving Institutions, State Controlled Institutions of Higher Education

FY06 Budget: \$5,500,000.00

Range of awards: \$150,000.00 to \$400,000.00

Number of Awards: 13-36

Percent of Applications Funded Last Fiscal Year: 30%

Cost Sharing Requirements: None Required.

Program Description: The purpose of The Higher Education Challenge (HEC) Grants Program is to strengthen institutional capacities to improve teaching programs in the food and agricultural sciences or in rural economic, community and business development, including curriculum, faculty, scientific instrumentation, instructional delivery systems, and student recruitment and retention, to respond to identified State, regional, national or international educational needs. CSREES encourages innovative proposals with the potential for national impact to serve as models for other institutions.

Projects supported by the Higher Education Challenge Grants Program will: (1) address a State, regional, national, or international educational need; (2) involve a creative or non-traditional approach toward addressing that need that can serve as a model to others; (3) encourage and facilitate better working relationships in the university science and education community, as well as between universities and the private sector, to enhance program quality and supplement available resources; and (4) result in benefits that will likely transcend the project duration and USDA support.

Contact Information

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B) Integrated Research, Education, and Extension Competitive Grants Program - Conservation Effects Assessment Project (CEAP)

Agency: Department of Agriculture, Cooperative State Research, Education, and Extension Service

Program Web Site: www.csrees.usda.gov/funding/rfas/conservation_effects.html

Program Sector Focus: Higher Education

Eligible Applicants: Native American tribal organizations (other than Federally recognized tribal governments), Private, Public, and State controlled institutions of higher education

FY06 Budget: approximately \$2.6 million

Range of awards: up to \$220,000 per year for 3 years

Number of Awards: 4 awards

Cost Sharing Requirements: If a grant provides a particular benefit to a specific agricultural commodity, the grant recipient is required to provide funds awarded on a dollar-for-dollar basis from non-Federal sources with cash and/or in-kind contributions. CSREES may waive the matching funds requirement for a grant if CSREES determines that: (a) the results of the project, while of particular benefit to a specific agricultural commodity, are likely to be applicable to agricultural commodities generally; or (b) the project involves a minor commodity, the project deals with scientifically important research, and the grant recipient is unable to satisfy the matching funds requirement.

Program Description: The goal of this program is to determine what the measurable effects of agricultural conservation practices are on water quality patterns and trends in surface and/or ground water at the watershed scale. CSREES requests applications for the Integrated Research, Education, and Extension Competitive Grants Program—Conservation Effects Assessment Project (CEAP) to develop research, education, and extension projects aimed at improving the quality of water resources in agricultural watersheds across the Nation. This is a joint effort with USDA's Natural Resources Conservation Service (NRCS) and Farm Service Agency (FSA).

CEAP seeks to fund projects that evaluate the effects of watershed conservation practices, especially with respect to understanding how the suite of conservation practices, the timing of these activities, and the spatial distribution of these practices throughout a watershed influence their effectiveness for achieving locally defined water quality goals. An extensive body of literature exists that describes plot- or field-scale conservation practices aimed at protecting water quality. However, research results from plot- and field-scale studies are limited in that they cannot capture the complexities and interactions of conservation practices within a watershed. CEAP responds to a need to conduct research that: 1) evaluates the impacts of interactions among conservation practices and their biophysical setting on water quality at the watershed scale; and 2) evaluates social and economic factors influencing implementation and maintenance of practices. CEAP also responds to a need to conduct outreach education to transfer knowledge from this research to farmers, ranchers, community leaders and other stakeholders.

Contact Information:

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C) International Science and Education Competitive Grants Program

Agency: Department of Agriculture, Cooperative State Research, Education, and Extension Service

Program Website: www.csrees.usda.gov/funding/rfas/intl_science.html

Program Sector Focus: Higher Education

Eligible Applicants: Private, Public, and State controlled institutions of higher education

FY06 Budget: \$180,000,000

Range of Awards: up to \$100,000

Number of Awards: Varies depending upon amount of awards granted.

Cost Sharing Requirements: None

Program Description: The International Science and Education Competitive Grants Program (ISE) supports research, extension, and teaching activities that will enhance the capabilities of American colleges and universities to conduct international collaborative research, extension and teaching. ISE projects are expected to enhance the international content of curricula; ensure that faculty work beyond the U.S. and bring lessons learned back home; promote international research partnerships; enhance the use and application of foreign technologies in the U.S.; and strengthen the role that colleges and universities play in maintaining U.S. competitiveness.

Contact Information:

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D) Secondary and Two-Year Postsecondary Agriculture Education Challenge Grants Program

Agency: Department of Agriculture, Cooperative State Research, Education and Extension Service

Program Web Site: www.csrees.usda.gov/fo/fundview.cfm?fonum=1083

Program Sector Focus: K-12 and Higher Education

Eligible Applicants: Independent School Districts, State Controlled Institutions of Higher Education

Applications may be submitted by eligible public secondary schools and public or private, nonprofit junior or community colleges.

FY06 Budget: \$1,000,000.00

Range of awards: \$35,000 to \$50,000

Number of Awards: 20-28

Percent of Applications Funded Last Fiscal Year: 70%

Cost Sharing Requirements: None

Program Description: The Secondary and Two-Year Postsecondary Agriculture Education Challenge Grants (SPEC) program seeks to: (a) promote and strengthen secondary education and two-year postsecondary education in agri-science and agribusiness in order to help ensure the existence in the United States of a qualified workforce to serve the food and agricultural sciences system; and (b) promote complementary and synergistic linkages among secondary, two-year postsecondary, and higher education programs in the food and agricultural sciences in order to advance excellence in education and encourage more young Americans to pursue and complete a baccalaureate or higher degree in the food and agricultural sciences.

Contact Information

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E) Water Quality Initiative Competitive Grants Program

Agency: the U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service

Program Website: www.csrees.usda.gov/fo/fundview.cfm?fonum=1134 or www.usawaterquality.org/about/default.html

Program Sector Focus: Informal, K-12, and Higher Education

Eligible Applicants: Educational Institutions

FY06 Budget \$10,185,890

Range of Awards: \$200,000-650,000

Number of Awards: 15

Percent of Applicants Funded Last Fiscal Year: 20%

Cost Sharing Requirements: If a grant provides a particular benefit to a specific agricultural commodity, the grant recipient is required to provide funds awarded on a dollar-for-dollar basis from non-Federal sources with cash and/or in-kind contributions.

Program Description: The CSREES National Integrated Water Quality Program provides funding to the National Water Program and its Land Grant partners via the CSREES Integrated Research, Education, and Extension Competitive Grants Program and the National Research Initiative Competitive Grants Program. The National Integrated Water Quality Program (NIWQP) provides funding for research, education, and extension projects aimed at improving water quality in agricultural and rural watersheds. The NIWQP has identified eight "themes" that are being promoted in research, education and extension. The eight themes are (1) Animal manure and waste management (2) Drinking water and human health (3) Environmental restoration (4) Nutrient and pesticide management (5) Pollution assessment and prevention (6) Watershed management (7) Water conservation and agricultural water management (8) Water policy and economics. Awards are made in four program areas - National Facilitation Projects, Regional Coordination Projects, Extension Education Projects, and Integrated Research, Education and Extension Projects. Please note that funding is only available to universities.

Contact Information:

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Natural Resources and Environment

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2. DEPARTMENT OF COMMERCE: *National Oceanic and Atmospheric Administration*

A) Bay Watershed Education and Training Hawaii Program (B-WET Hawaii)

Agency: Department of Commerce, National Oceanic and Atmospheric Administration

Program Web Site: www.csc.noaa.gov/psc/bwet.html

Program Sector Focus: Informal, K-12 and Higher Education

Eligible Applicants: Eligible applications are K-12 public and independent schools and school systems, institutions of higher education, commercial and nonprofit organizations, state or local government agencies, and Indian tribal governments.

FY06 Budget: \$1,000,000

Range of awards: \$10,000 - \$100,000

Number of Awards: 15

Cost Sharing Requirements: Highly recommended, but not required.

Program Description: The B-WET Hawaii Program is an annually awarded, competitively-based grant that supports existing environmental education programs, fosters the growth of new programs, and encourages the development of new programs, and encourages the development of partnerships among environmental education programs throughout Hawaii. Funded projects provide meaningful outdoor experiences for K-12 students and professional development opportunities for teachers in the area of environmental education. Funds will be made available for only a 12 month award period. The program priorities for this opportunity support NOAA's mission through Ecosystem-Based Management.

Contact Information:

Sam Thomas

B-WET Hawai'i Coordinator

NOAA Pacific Services Center

737 Bishop Street Suite 2250

Honolulu, Hawai'i 96813.

Phone: 808-532-3960

B) Bay Watershed Education and Training (B-WET Chesapeake Bay)

Agency: Department of Commerce, National Oceanic and Atmospheric Administration

Program Web Site: <http://noaa.chesapeakebay.net/>

Program Sector Focus: Informal, K-12 and Higher Education

Eligible Applicants: Eligible applicants are K-through-12 public and independent schools and school systems, institutions of higher education, community-based and nonprofit organizations, state or local government agencies, interstate agencies, and Indian tribal governments in the Chesapeake Bay watershed.

FY06 Budget: \$2,200,000 About \$1.0M will be for exemplar programs that successfully integrate teacher professional development on the Chesapeake Bay watershed with in-depth classroom study and outdoor experiences for their students. About \$600K will be for proposals that provide opportunities for students (K through 12) to participate in "Meaningful" Watershed Educational Experiences related to Chesapeake Bay. About \$600K will be for proposals that provide opportunities for Professional Development in the area of Chesapeake Bay watershed education for teachers.

Range of awards: \$10,000- 200,000

Number of Awards: Number dependent upon grant amounts awarded.

Cost Sharing Requirements: Highly recommended, but not required.

Program Description: The Chesapeake B-WET grant program is a competitively based program that supports existing environmental education programs, fosters the growth of new programs, and encourages the development of partnerships among environmental education programs throughout the entire Chesapeake Bay watershed. Funded projects assist in meeting the Stewardship and Community Engagement goals of the Chesapeake 2000 Agreement. Projects support organizations that provide students "meaningful" Chesapeake Bay or stream outdoor experiences and teachers professional development opportunities in the area of environmental education related to the Chesapeake Bay watershed.

Contact Information

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C) California Bay Watershed Education and Training Program (B-WET California)

Agency: Department of Commerce, National Oceanic and Atmospheric Administration

Program Web Site: www.sanctuaries.noaa.gov/news/bwet/welcome.html

Program Sector Focus: Informal, K-12 and Higher Education

Eligible Applicants: Eligible applicants are K-through-12 public and independent schools and school systems, institutions of higher education, nonprofit organizations, state or local government agencies, and Indian tribal governments.

FY07 Budget: \$1,650,000 About \$700,000 available to the San Francisco Bay watershed area, \$600,000 available to the Monterey Bay watershed area, and about \$350,000 available to the Santa Barbara Channel watershed area.

Range of awards: \$10,000-55,000

Number of Awards: 35

Cost Sharing Requirements: Highly recommended, but not required.

Program Description: The NOAA Bay Watershed Education and Training (B-WET) Program was established in 2002 to increase environmental stewardship and appreciation of the watershed and marine environment. The California B-WET grant program, is a competitively based program that supports existing environmental education programs, fosters the growth of new programs, and encourages the development of partnerships among environmental education programs throughout the San Francisco Bay, Monterey Bay, and Santa Barbara Channel watersheds. Funded projects provide “Meaningful Watershed Experiences” to students and teachers. Proposals must address one or both of the two areas of interest: (1) Meaningful Watershed Experiences for Students; or (2) Professional Development in the Area of Environmental Education for Teachers.

Contact Information

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D) Educational Partnership Program (EPP) with Minority Serving Institutions (MSI), Environmental Entrepreneurship Program (EEP)

Agency: Department of Commerce, National Oceanic and Atmospheric Administration

Program Web Site: www.ofa.noaa.gov/%7Egrants/appkit.html

Program Sector Focus: Higher Education

Eligible Applicants: Historically Black Colleges and Universities, Hispanic-Serving Institutions, Tribal Colleges and Universities, Alaska Native and Native Hawaiian Serving Institutions :United States Department of Education Accredited Post-Secondary Minority Institutions

FY06 Budget: \$6,000,000

Range of awards: up to \$500,000

Number of Awards: 12

Cost Sharing Requirements: None

Program Description: The NOAA Environmental Entrepreneurship Program is designed to strengthen the capacity of Minority Serving Institutions (MSIs) to foster student careers, entrepreneurship opportunities and advanced academic degrees in the sciences directly related to NOAA's mission. The Sciences directly related to NOAA's mission include: fisheries, coastal, ocean, climate, atmospheric, environmental sciences and remote sensing technology. For the purposes of this program, Environmental Entrepreneurship is defined as a mechanism to provide student training in the application of NOAA sciences for the creation of business opportunities. This is achieved by MSIs establishing partnerships with NOAA, the academic community, and the public and private sector to engage in a compliment of entrepreneurial training and technical skills in environmental sciences that will promote commerce and economic development.

The Environmental Entrepreneurship Program is designed to promote careers, job-creation, and business opportunities for students underrepresented in NOAA environmental sciences as demonstrated by statistics from the National Science Foundation. The program is open to all U.S. citizens attending MSIs and partner institutions. Priorities are categorized as the following: Category I - High School Science Pipeline Projects and Category II - Environmental Demonstration Projects

Contact Information

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E) Environmental Literacy Grants

Agency: Department of Commerce, National Oceanic and Atmospheric Administration

Program Web Site: www.oesd.noaa.gov/funding_opps.html

Program Sector Focus: Informal, K-12, and Higher Education

Eligible Applicants: Accredited institutions of higher education, other nonprofits, commercial organizations and state, local and Indian tribal governments. Examples: K through 12 public and independent schools and school systems, and science centers and museums.

FY06 Budget: \$3 million

Range of awards: \$100,000-600,000

Number of Awards: 10

Percentage of Applicants Awarded Grants: about 5-10%

Cost Sharing Requirements: None

Program Description: The NOAA Office of Education (OEd) is issuing a request for applications for environmental literacy projects. Funded projects will be between one and five years in duration and will (1) further the use and incorporation of the Ocean Literacy Essential Principles and Fundamental Concepts in formal and informal education and/or measure ocean literacy among the public; or (2) strengthen the capacity to develop a workforce knowledgeable about weather and climate. All projects shall employ the strategies articulated in the NOAA Education Plan and involve NOAA entities as partners.

Contact Information (DOC/NOAA Office of Education and Sustainable Development
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F) Ocean Exploration Education

Agency: Department of Commerce, Office of Ocean Exploration (OE), National Oceanic and Atmospheric Administration (NOAA),

Program Web Site: www.explore.noaa.gov/opportunity/welcome.html

Program Sector Focus: Informal and Higher Education

Eligible Applicants: Institutions of higher education, other nonprofits, commercial organizations, organizations under the jurisdiction of foreign governments, international organizations, State, Local and Indian tribal governments.

FY06 Budget: Total: \$2,100,000; Ocean Exploration Education: \$300,000

Range of awards: \$20,000-300,000; average award: \$50,000

Number of Awards: Total: 15; Ocean Exploration Education: 6

Cost Sharing Requirements: Recommended, but not required.

Program Description: Competitive OE proposals will be bold, innovative and interdisciplinary in their approach and objectives and will fall within one (or more) of three categories: Ocean Exploration, Marine Archaeology, and Ocean Exploration Education.

Ocean Exploration Education: In response to the 2000 President's Panel on Ocean Exploration Report and the NOAA Strategic Plan, the NOAA OE Office produced a curriculum titled *Learning Ocean Science through Ocean Exploration*. Developed for use in professional development for teachers of Grades 6-12, the OE curriculum includes lessons developed from NOAA expeditions of discovery. Curriculum themes progress from physical science through earth science to biological and environmental science. By combining the Ocean Explorer Web site www.oceanexplorer.noaa.gov and the OE companion CD into the curriculum, teachers and students have a direct connection to the scientists whose work they are modeling in the classroom and to other new discoveries made on OE expeditions. The curriculum is available online at:

<http://oceanexplorer.noaa.gov/edu/curriculum/welcome.html>. NOAA is seeking to extend the use of these OE education materials located on the Web site and in the National Science Education Standards-based curriculum in school districts and other learning centers throughout the country. Education submissions should consider at least one of the following areas to integrate effectively the OE curriculum and companion CD/Web site into teaching and learning:

- District-wide professional development for teachers in the use of the curriculum and NOAA Ocean Explorer Companion CD/Web;
- School-wide team-based development for teachers in the use of the OE curriculum and NOAA Ocean Explorer Companion CD/Web site;
- Integration of institutions of higher learning with teachers of Grades 6-12 in use of the curriculum and NOAA Ocean Explorer Companion CD/Web site;
- Integration of the curriculum and NOAA Ocean Explorer Companion CD/Web site into after-school/summer programs; and
- Other novel projects that extend the use of the curriculum and companion CD/Web site at the local, state and/or regional level.

Contact Information

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3. DEPARTMENT OF EDUCATION

A) Fund for the Improvement of Post-Secondary Education – Comprehensive Program

Agency: Department of Education

Program Website: www.ed.gov/programs/fipsecomp/index.html

Program Sector Focus: Higher Education

Eligible Applicants: Proposals may be submitted by two and four year colleges and universities, both public and private, accredited or non-accredited; graduate and professional schools; community organizations; libraries; museums; trade and technical schools; unions; consortia; student groups; state and local government agencies; nonprofit corporations; and associations.

FY06 Budget: \$11,250,000

Range of Awards: \$50,000- \$275,000

Number of Awards: 50 (2004)

Cost Sharing Requirement: None

Program Description: The Comprehensive Program is the central grant competition of the Fund for the Improvement of Postsecondary Education (FIPSE). The competition is designed to support innovative reform projects that hold promise as models for the resolution of important issues and problems in postsecondary education. All nonprofit institutions and organizations offering postsecondary education programs are eligible to receive FIPSE grants. Those grants may support any academic discipline, program, or student support service.

- It is *action-oriented*. Although FIPSE will consider proposals to assess existing reforms, or to study the feasibility of reforms in the development stage, it does not ordinarily support basic research. The Comprehensive Program supports a wide range of practical reform initiatives and assists grantees in assessing their results and disseminating what is learned to other institutions and agencies.
- It encourages *bold thinking and innovative projects*. The resources of the Comprehensive Program are devoted to new ideas and practices and to the dissemination of proven innovations to others. FIPSE will support controversial or unconventional projects, as long as they are well justified, carefully designed, and responsibly managed.
- It is *responsive to practitioners*. In its Agenda for Improvement (see website), FIPSE identifies common issues and problems affecting postsecondary education and invites applicants to address these *or other* problems imaginatively. The Comprehensive Program welcomes proposals addressing any and all topics of postsecondary improvement and reform.

At least five institutions have received FIPSE grants since 2001 for environment or sustainability projects:

- Arizona State University: Arizona Intertribal and Postsecondary Institutional Networking: A Model for American Indian Higher Education
- College of the Atlantic: A River Runs Through It: A College-Community Watershed Curriculum for Regional Planning
- Fremont County Board of Cooperative Education Services: Middle School to Middle College
- University of North Iowa: STEP-UP: Working Toward Integrative Learning and Service
- Western Interstate Commission for higher Education: The Northwest Educational Outreach Network

Contact Information: Cassandra Courtney, Coordinator, Comprehensive Program

Phone: 202-502-7506 E-mail: Cassandra.Courtney@ed.gov

B) Public Charter School Program

Agency: Department of Education

Program Website: www.ed.gov/programs/charter/index.html

Program Sector Focus: K-12 education

Eligible Applicants: State educational agencies (SEAs) in States with a specific State statute authorizing the establishment of charter schools may apply for funding. Non-SEA eligible applicants may apply for funding directly from the U.S. Department of Education (Department) if the SEA in the State elects not to participate in the PCSP or does not have an application approved under the program.

FY06 Budget: \$214,782,480

Range of Awards: \$500,000 - \$8,000,000 for SEAs; \$10,000 - \$150,000 for others

Number of Awards: 4-6 for SEAs; 50-75 non-SEAs.

Cost Sharing Requirement: None

Program Description: The Public Charter Schools Program supports the planning, development, and initial implementation of charter schools. Charter schools provide enhanced parental choice and are exempt from many statutory and regulatory requirements. In exchange for increased flexibility, charter schools are held accountable for improving student academic achievement. The objective is to replace rules-based governance with performance-based accountability, thereby stimulating the creativity and commitment of teachers, parents, and citizens.

States--and specifically their State educational Agencies (SEAs)-- are eligible to compete for grants if they have a charter school law in place. If an eligible SEA does not participate, charter schools from the State may apply directly to the U.S. Department of Education. Grantees receive up to 3 years of assistance, of which the charter school may use not more than 18 months for planning and program design and not more than 2 years for the initial implementation of a charter school.

Contact Information:

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C) 21st Century Community Learning Centers Program

Agency: Department of Education

Program Website: www.ed.gov/programs/21stcclc/index.html

Program Sector Focus: Informal and K-12 Education

Eligible Applicants: State educational agencies, which in turn manage statewide competitions and award grants to eligible entities. For this program, eligible entity means a local educational agency, community-based organization, another public or private entity, or a consortium of two or more of such agencies, organizations, faith-based organizations.

FY06 Budget: \$981,166,230

Range of Awards: 57

Number of Awards: \$4,801,715 to \$131,320,892

Cost Sharing Requirement: None

Program Description: The 21st CCLC Program is a key component of President Bush's No Child Left Behind Act. It is an opportunity for students and their families to continue to learn new skills and discover new abilities after the school day has ended. Congress has appropriated \$991.07 million for afterschool programs in Fiscal Year (FY) 2005.

The focus of this program, re-authorized under Title IV, Part B, of the No Child Left Behind Act, is to provide expanded academic enrichment opportunities for children attending low performing schools. Tutorial services and academic enrichment activities are designed to help students meet local and state academic standards in subjects such as reading and math. In addition 21st CCLC programs provide youth development activities, drug and violence prevention programs, technology education programs, art, music and recreation programs, counseling and character education to enhance the academic component of the program.

Contact Information:

For general questions email: 21stCCLC@ed.gov

For state contact list, go to: www.ed.gov/programs/21stcclc/contacts.html

4. DEPARTMENT OF HEALTH AND HUMAN SERVICES: *National Institute of Environmental Health Services*

A) Environmental Health Sciences as an Integrative Context (EHSIC) Grant Program

Agency: Department of Health and Human Services, National Institute of Environmental Health Sciences

Program Website: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-99-011.html>

Program Sector Focus: K-12 and Higher Education

Eligible Applicants:

Budget: about \$2,500,000 every year

Range of Awards: \$250,000

Number of Awards: 7

Program Description: NIEHS is supporting projects designed to integrate environmental health sciences into a variety of school curricula. This is the third and most current K-12 Environmental Health Science Education Program supported by the NIEHS. The purpose of this initiative is to utilize environmental health science as an integrating context (EHSIC) to be implemented in K-12 curricula that will improve overall academic performance as well as enhance student awareness and knowledge of environmental health science. Key features of this program are:

1. Projects must have active collaboration among an educator, a state department of education, and an environmental health scientist.
2. Subjects included for study must be relevant, contemporary, and encourage interdisciplinary integration of environmental health sciences. An environmental health concept or theme must be identified and studied in at least three different subject areas, e.g., biology, health, civics, social studies, math, chemistry, language arts, etc. At least one of these subjects should be non-science.
3. Curricula must be standard based.

The program must be multiphasic in implementation, e.g., the first phase will include instructional material development and teacher enhancement and development components. The second phase will consist of implementing EHSIC projects into classrooms. The third phase will be for evaluation of EHSIC impacts on student performance and development of plans to disseminate the EHSIC curriculum.

Nine EHSIC awards that address elementary, middle and secondary school curricula, teachers, and students were made in FY 2000. **NOTE: No new RFPs are currently planned for this program.**

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Program Analyst

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5. DEPARTMENT OF THE INTERIOR:

Office of Surface Mining, U.S. Fish and Wildlife Service, and U.S. Forest Service

A) National Urban and Community Forestry Advisory Council Challenge Cost-Share Grant Program

Agency: Department of the Interior, U.S. Forest Service

Program Website: www.treelink.org/nucfac/general_info.html

Program Sector Focus: Informal Education

Eligible Applicants: Any non-Federal organization, operating within the United States or its territories

FY07 Budget: \$1,000,000

Range of Awards: up to \$1,000,000

Number of Awards: Variable depending upon amount of awards

Cost Sharing Requirements: All grant funds must be matched at least equally (dollar for dollar) with non-Federal source funds. This match may include in-kind donations, volunteer assistance, and private and public (non-Federal) monetary contributions.

Program Description: All projects must have national or widespread scope and application and include a clear, national distribution or outreach plan for the findings. Local tree-planting projects, capital improvements to property of any ownership, and/or projects that have only a local impact and applicability will not be considered for funding. Urban and community forestry projects with a local scope of work should contact their State Urban and Community Forestry Coordinator for assistance in identifying funding alternatives at the local level. The list of State Coordinators may be found at: www.fs.fed.us/ucf/Related_Links/UCF_State_coordinators.htm.

CATEGORY 1: Innovative Urban and Community Forestry for Minority and Underserved Populations **Priority:** To develop creative and innovative partnerships that include minority organizations in a more inclusive role while partnering in urban and community forestry at the local, state, and national level. **Goal:** To increase participation, through partnership by, and equitable service delivered to, people of color, people with physical or mental challenges, and others as defined in Title VI of the Civil Rights Act of 1964. **Examples include but are not limited to:** Projects that are co-sponsored between an arboriculture or urban forestry related organization and an organization with a focus on minority and underserved populations; *projects that partner with organizations that focus on at-risk youth with urban and community forestry with a goal to increase the job training and career preparation of the youth involved; projects that focus on cultural relationships that highlight the value of urban forestry and may share historic traditions; projects that focus on developing environmental education programs that can be offered and administered by minority and underserved organizations to minority and underserved audiences.*

CATEGORY 2: Advancing Emerging Issues: Green Infrastructure and Sustainable Urban Ecosystems **Goal:** To advance the emerging field of green infrastructure, with an emphasis on tree canopy and restoring ecological function in urban settings. To expand the body of knowledge, demonstrate design approaches, and transfer best practices about tree canopy as a green infrastructure component to decision makers, practitioners, and the public.

CATEGORY 4: Special Emphasis Areas **Goal:** Each year NUCFAC requests stakeholder input on the CCS grant program. The goal of this category is to respond to recent items of importance shared by stakeholders.

CATEGORY 5: Capacity Building **Goal:** To encourage and enhance workforce development in urban and community forestry and related disciplines.

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B) The "Nature of Learning:" Promoting Education and Stewardship in the Community Funding Program Details

Agency: Department of the Interior, U.S Fish and Wildlife Service

Program Web Sites: www.fws.gov/refuges/education/natureOfLearning/intro.html,
www.nfwf.org/programs/tnol.cfm

Eligible Applicants: Schools or non-profit organizations, including "Friends" groups, Cooperative and Interpretive Associations, Audubon Chapters, are eligible to apply for funding. Examples: Girl Scout troops, elementary, middle and high schools, charter schools, curriculum directors, after-school programs, boy scouts.

Program Sector Focus: Informal and K-12 Education

FY06 Budget: \$150,000

Range of awards: 1st yr-\$5000; 2nd -3rd yr \$3000

Number of Awards: 38 awards (FY06)

Percent of Applications Funded: about 50% (FY05)

Cost Sharing Requirements: Highly recommended, but not required.

Program Description: National Wildlife Refuge System's new community-based environmental education initiative will award grants of up to \$5,000 on a competitive basis to support start-up expenses associated with new programs. In addition, grants of up to \$3,000 will be awarded on a competitive basis to provide continued support to existing Nature of Learning programs. Funding can be used for transportation, supplies, stipends, and contractual services.

This program seeks educational organizations that will partner with a national refuge and the local community for the proposed project. Projects should be interdisciplinary and tied to state and national standards.

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C) Watershed Intern Program

Agency: Department of the Interior, Office of Surface Mining

Program Web Site: www.osmre.gov/acsi/internindex.htm

Program Sector Focus: Informal Education

Eligible Applicants: Watershed organizations in the following states are eligible to participate: Alabama, Illinois, Indiana, Iowa, Kentucky, Maryland, Missouri, Ohio, Oklahoma, Pennsylvania, Tennessee, Virginia, and West Virginia. All Undergraduate and/or Graduate Students, throughout the United States, interested in helping to clean up the environment are encouraged to apply.

FY06 Budget: \$30,000

Range of awards: \$1250-2500

Number of Awards: 20

Cost Sharing Requirements: For those organizations that have been awarded and sponsored interns in the past, the Office of Surface Mining will provide half of the total (\$1,250) and we ask that the sponsor match these funds by providing the remaining half of the funds (\$1,250).

Program Description: A stipend is awarded to watershed organizations who wish to support an intern to work on a watershed project. Each proposed watershed project must clearly enhance the sustainability of the watershed group; and must contribute directly to the fight against Acid Mine Drainage, the largest environmental challenge in the Appalachian coal fields. Projects could include, but are not limited to: watershed monitoring, watershed planning, grant writing, educational program development, community organization, and conceptual design for passive acid mine drainage remediation systems. Each internship carries a \$2,000 stipend for 12 weeks of full-time work by the intern and \$500 for related expenses.

In addition to developing partnerships with other federal agencies, we ask that the sponsoring organizations partner with us. Therefore, the Office of Surface Mining will provide the full amount of \$2,500 to first time sponsoring organizations. For those organizations that have been awarded and sponsored interns in the past, the Office of Surface Mining will provide half of the total (\$1,250) and we ask that the sponsor match these funds by providing the remaining half of the funds (\$1,250).

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6. ENVIRONMENTAL PROTECTION AGENCY

A) Community Action for a Renewed Environment (CARE) Program

Agency: Environmental Protection Agency

Program Website: www.epa.gov/oar/grants/06-01.pdf

Program Sector Focus: Informal and Higher Education

Eligible Applicants: Native American Tribal Governments (federally recognized), special district governments, private institutions of higher education, nonprofits having 501(c)(3) status with the IRS, other institutions of higher education, city or township governments, county governments, public and state controlled institutions of higher education

FY06 Budget: \$2,700,000

Range of Awards: \$75,000-300,000

Number of Awards: 8 - 10 Level I cooperative agreements ranging in value from \$75,000 to \$100,000 and 6 – 8 Level II cooperative agreements ranging in value from \$150,000 to \$300,000.

Cost Sharing Requirements: None

Program Description: CARE is a unique community based, community driven, multimedia demonstration program designed to help communities understand and reduce risks due to toxics and environmental pollutants from all sources. The CARE program will help communities form collaborative partnerships, develop a comprehensive understanding of the many sources of risk from toxics and environmental pollutants, set priorities, and identify and carry out projects to reduce risks through collaborative action at the local level. CARE's long-term goal is to help communities build self-sustaining, community-based partnerships that will continue to improve human health and local environments into the future.

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B) Consumer Education About Reducing Greenhouse Gas Emissions Through Awareness and Use of Energy-Efficient Products and Practices

Agency: Environmental Protection Agency

Program Website: www.epa.gov/oar/grants/06-04.pdf

Program Sector Focus: Informal and Higher Education

Eligible Applicants: states, local governments, territories, Indian Tribes, and possessions of the U.S., including the District of Columbia, international organizations, public and private universities and colleges, hospitals, laboratories, other public or private nonprofit institutions,

FY06 Budget: \$1,350,000

Range of Awards: \$100,000-\$250,000

Number of Awards: 3

Cost Sharing Requirements: None

Program Description: The Climate Protection Partnerships Division seeks to fund proposals that will increase overall consumer understanding and relevance of the connection between energy efficiency and the environment on national, regional and local levels. Proposals should demonstrate establishment and experience in consumer advocacy and social marketing, as well as knowledge about energy efficiency and environmental issues. Tactics used in outreach should reach consumers at a “grassroots” level, as well as reaching diverse audiences. Examples of the types of activities that proposals may address include the following:

- Successful outreach through the use of unique communications channels that will provide substantive, action-oriented information about the importance of energy efficiency, energy savings, and environmental protection in both residential and commercial sectors, to reduce the risks of global warming. Education can focus on residential, business or other sectors.
- Identify unique methods for disseminating energy efficiency and environmental information in a way that compels the American public to take actions to save energy, as well as to help them make informed choices about incorporating energy-efficient practices and products in their homes, offices and daily activities, which will lead to a long-term behavior change and increased environmental protection.
- Address approaches/channels for disseminating information and what educational tactics will be used (e.g. media, Internet, member outreach, etc.).
- Solid understanding and substantial knowledge base of energy and environmental issues facing Americans today, as well as energy efficiency measures and best practices that are required in order to reach consumers and compel them to take action that will not only save energy and money, but lead to an overall change in behavior that will yield long-term benefits for the environment.
- Present a results oriented, phased approach for each year of the project showing goals, considered activities and anticipated results.
- Education about the link between energy use and the environmental impact.
- Leading consumers to take action in their homes and offices that will improve energy efficiency and help protect the environment.
- Increase consumer awareness of energy-efficient practices that can be done in the home or office to save energy and reduce the risks of global warming.
- Working with state and local governments to improve energy performance to existing buildings (e.g., offices, schools, hospitals, hotels, etc.)

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C) Environmental Justice Small Grants Program

Agency: Environmental Protection Agency

Program Website: www.epa.gov/compliance/environmentaljustice/grants/ej-smgrants.html

Program Sector Focus: Informal and Higher Education

Eligible Applicants: 501(c)(3) non-profit organizations or a non-profit organization, recognized by the state, territory, commonwealth, or tribe in which it is located.

FY06 Budget: \$500,000

Range of Awards: \$50,000

Number of Awards: At least one grant in each of EPA's ten regions

Cost Sharing Requirements: No cost-sharing or matching is allowed. Your budget must be exactly \$50,000.

Program Description: The EJSG program is designed to provide funding for eligible applicants working on, or planning to work on, a project that addresses a local environmental and/or public health issue within an affected community. The EJSG Program is a multi-statute program designed to help communities understand and address their exposure to multiple environmental harms and risks.

The primary purposes of proposed projects should be to create and/or develop collaborative partnerships, educate the community, develop a comprehensive understanding of environmental and/or public health issues, and identify ways to address these issues at the local level. The long-term goals of the EJSG Program are to help build the capacity of affected community and create self-sustaining, community-based partnerships that will continue to improve local environments in the future.

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D) Healthy Communities Grant Program

Agency: Environmental Protection Agency

Program Website: www.epa.gov/ne/eco/uep/grants_2006hc.html

Program Sector Focus: Informal, K-12 and Higher Education

Eligible Applicants: Eligible applicants include non-profit organizations; local government, state, or regional agencies; K-12 schools or school districts; colleges or universities, and tribes with a demonstrated interest in performing projects in Target Investment Areas identified by this grant program in the New England States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. Private businesses, federal agencies, and individuals are not eligible to be grant recipients; however, they are encouraged to work in partnership with eligible applicants on projects. Applicants need not be physically located in these states to be eligible for this grant program.

FY07 Budget: Unknown

Range of Awards: \$5,000-30,000

Number of Awards: 20-25

Cost Sharing Requirements: Not required, but recommended. Applicants may match up to 5% of their proposed total budget.

Program Description: The Healthy Communities Grant Program is seeking projects that:

- Target resources to benefit communities at risk (environmental justice areas of potential concern, places with high risk from toxic air pollution, urban areas) and sensitive populations (e.g. children, elderly, others at increased risk).
- Assess, understand, and reduce environmental and human health risks.
- Increase collaboration through community-based projects.
- Build institutional and community capacity to understand and solve environment and human health problems.
- Achieve measurable environmental and human health benefits.

In order to qualify as eligible projects under the Healthy Communities Grant Program, projects must meet two criteria: (1) Be located in and/or directly benefit one or more of the four Target Investment Areas; and (2) Identify how the proposed project will measurable environmental and public health results in one or more of the seven Target Program Areas.

Target Investment Areas:

Environmental Justice Areas of Potential Concern, Places with High Risks from Toxic Air Pollution, Sensitive Populations, Urban Areas

Target Program Areas:

Asthma, Capacity-Building on Environmental and Public Health Issues, Healthy Indoor/Outdoor Environments , Healthy Schools, Urban Natural Resources and Open/Green Space, Smart Growth, Water Quality Monitoring or Analyses

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E) P3 Award Competition

Agency: Environmental Protection Agency

Program Website: <http://es.epa.gov/ncer/p3/>

Program Sector Focus: Higher Education

Eligible Applicants: Undergraduate and graduate students

FY06 Budget: Approximately \$850,000.

Range of Awards: Initial Grant: \$10,000. Final Award: up to \$75,000

Number of Awards (2006): 41 initial grants; 6 Final Awards

Cost Sharing Requirements: None

Program Description: P³ focuses on the three components of sustainability: *People, Prosperity* and the *Planet*. Through this national student design competition, college students gain new skills and knowledge as they research, develop, design, and implement scientific and technical solutions to environmental challenges. The competition has two phases. Initially, student teams compete for \$10,000 grants. Grant recipients then use their grant money to research and develop their design projects during the academic year. Then, in the following spring, all P3 grant recipients are invited to Washington, D.C. to compete for the P3 Award. The National Academies, advisors to the nation on science, engineering, and medicine, convene a panel to evaluate and recommend the award winners. The final award decisions are made by EPA.

Examples of past grants:

- Portland State University - Whole systems, Integrated Site for Education (WISE) Website: An Interactive Website for Educators and Students
- University of Michigan, Ann Arbor - Transforming the University Campus into a Sustainable Community: An Evaluation of Land Use, Smart Growth, and Sustainability at the University of Michigan
- Carnegie Mellon University - Solar Thermal Heating for a Zero Energy House
- Iowa State University- Drinking Water Disinfection Using a UV/Photocatalyst
- University of Missouri, Rolla - S.T.E.P. (Solar Thermal/Electric Panel): Full Scale Performance Data and Energy Testing
- Appalachian State University - Closing the Biodiesel Loop: Self Sustaining Community Based Biodiesel Production
- University of California, Riverside - Rainwater Harvesting: A Simple Means of Supplementing California's Thirst for Water

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F) Partnership for Clean Indoor Air Outreach, Communication and Education

Agency: Environmental Protection Agency

Program Website: www.epa.gov/oar/grants/05-20rev1.pdf

Program Sector Focus: Higher Education

Eligible Applicants: universities, States, territories, Indian Tribes, and possessions of the U.S., including District of Columbia; international organizations; public and private universities and colleges; hospitals; laboratories; and other public or private nonprofit institutions.

FY05 Budget: \$400,000-500,000

Range of Awards: \$200,000-250,000

Number of Awards: 1

Cost Sharing Requirements: None

Program Description: Through this RFA, EPA is seeking a qualified organization to increase the exchange of technical and programmatic information among the Partners and others working in the global household energy and health sectors and facilitate the promotion of effective approaches to household energy and health throughout partnering countries. Activities will promote and support direct information exchange within and between regions among technology users, technology and social science researchers, entrepreneurs, project implementers, program directors and policy makers. These exchanges will help participants share their experiences, identify lessons learned, and more rapidly assimilate insights gained around the world.

Specific activities may include such things as:

- Sharing and disseminating information to Partners on relevant household energy and health issues, including publishing an electronic quarterly newsletter and periodic announcements;
- Developing, operating and maintaining a Web site to provide easy access to relevant information, activities and resources, highlighting Partnership accomplishments, and profiling Partner organizations;
- Recruiting additional non-governmental organizations, private firms, research institutions, and country governments into the Partnership or its activities;
- Seeking feedback from Partners on needs and synergies;
- Expanding the exchange of information and lessons learned, including dissemination of key technical documents through electronic means;
- Organizing and providing logistical support for Partnership activities and related events (e.g. Partnership meetings, forums, thematic workshops and technical assistance activities, etc.);
- Assisting in the development of Partnership meetings and workshops (i.e., identifying technical presenters and participants).
- Compiling key findings from meetings, workshops and activities and disseminating them through established Partnership communication channels; and
- Expanding visibility for international household energy and health issues.

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G) Regional and National Environmental Education Grants

Agency: Environmental Protection Agency

Program Website: www.epa.gov/enviroed/grants.html

Program Sector Focus: Informal, K-12 and Higher Education

Eligible Applicants: Colleges and universities, local and tribal educational agencies, state education and environmental agencies, not-for-profit organizations, and non-commercial educational broadcasting entities.

FY06 Budget: \$2-3 million

Range of Awards: Regional: up to \$50,000; National: \$85,000-\$100,000

Number of Awards: Total: 200; National: 12

Percent of Applicants Awarded Grants: about 20%

Cost Sharing Requirements: At least 25% of the project cost must be matched by non-Federal funding

Program Description: The goal of the program is to support environmental education (EE) projects that enhance the public's knowledge, awareness, and skills to make informed and responsible decisions that affect environmental quality. To be considered EE, the project must be based on sound science and promote environmental stewardship. The project must enhance critical-thinking, problem-solving, and decision-making skills, as well as teach individuals to weigh various sides of an environmental issue to make informed and responsible decisions. Environmental Education does not advocate a particular viewpoint or course of action.

EPA project priorities include: 1) build state capacity to deliver environmental education programs; 2) use EE to advance state education reform goals; 3) improve teaching skills; 4) educate the public through community-based organizations; 4) educate teachers, health professionals, community leaders and the public about human health threats from pollution, especially if it affects children; 5) promote environmental careers.

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Regional Contact information: http://www.epa.gov/enviroed/grants_contacts.html

H) Tribal Environmental Education Outreach and Support Program

Agency: Environmental Protection Agency

Program Website: www.epa.gov/oar/grants/05-10.pdf

Program Sector Focus: Informal and Higher Education

Eligible Applicants: States, territories, Indian Tribes, and possessions of the U.S., including the District of Columbia, public and private universities and colleges, hospitals, laboratories, other public or private nonprofit institutions,

FY05 Budget: \$200,000

Range of Awards: \$200,000

Number of Awards: 1

Cost Sharing Requirements: Recommended, but not required

Program Description: EPA's Office of Air and Radiation is seeking applications from eligible entities to provide outreach, education, and training support to tribes that will encourage tribal students to develop an interest, understanding, and abilities to pursue careers in environmental sciences, particularly in the field of air quality management. The anticipated activities associated with providing education, outreach, and support services envisioned under this project have been divided into six major tasks. The tasks and activities EPA is particularly interested in having addressed in the proposal are as follows:

Task 1: Outreach to Tribal Schools, Students and Communities. Outreach should be provided to schools and other community groups and activities as appropriate. The outreach can be in the form of visits, lectures, activities, demonstrations and other approved methods as proposed, but should effectively build relationships and provide positive interactions to meet the programs' objectives.

Task 2: Training Facility Site Visits.

This task should invite students to a central training location where they can have an immersion experience exposing them to scientific and environmental experiences and principles that they can learn and understand in a friendly educational atmosphere.

Task 3: Mentoring Programs. Mentoring programs involve providing programs that allow young people to connect with and learn from older people with backgrounds and experiences, particularly tribal college students and young environmental and air quality professionals. Mentoring programs should encourage ongoing, structured and supervised relationships that allow for the mentor to help the protégée understand professional options and make informed choices. Training is also part of a mentoring program, and should help identify career objectives and provide advise on how to meet them, provide networking opportunities and forums for professional growth.

Task 4: Professional Assistance and Support. The Professional Assistance and Support aspect of the program ensures that the direct activities are properly supported to provide meaningful materials, contacts, and support to ensure a comprehensive program.

Task 5: Website. Provide and maintain a program website in support of all training and technical activities.

Task 6: Internship Programs. An important element for this program will be the availability of internship programs to enhance and solidify the learning experience, and to offer a perspective of broader opportunities in environmental careers. An internship program should offer the opportunity for tribal students to work for short periods in an academic, tribal or other governmental setting and gain additional experience and insight into career opportunities.

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7. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

A) Mission to Planet Earth Education Program

Agency: National Aeronautics and Space Administration

Program Website: http://research.hq.nasa.gov/code_y/nra/current/NRA-96-MTPE-07/edunra.pdf

Program Sector Focus: K-12 and Higher Education

Eligible Applicants: Participation in this announcement is open to all categories of domestic and foreign organizations, educational institutions, industry, nonprofit institutions, NASA centers, museums, observatories, as well as private sector entities. In addition, eligibility for the Pre-Service Teacher Enhancement opportunity requires the institution to offer an accredited teacher certification program or partner with an institution that does possess that criteria.

FY07 Budget: \$375,000

Range of Awards: Higher Education Support: \$75,000 per year for up to 3 years

Pre-Service Teacher Support: \$20,000 per year for 3 years

Number of Awards: Higher Education: 5. Pre-Service Teachers: 12-20

Cost Sharing Requirements: None

Program Description: This announcement solicits two different types of proposals. First, the Higher Education Student Support opportunity seeks to fund institutions that propose to provide enriching summer research experiences for primarily undergraduate students. Second, the Pre-Service Teacher Enhancement opportunity seeks to fund institutions that propose to provide workshops for students of education that provide exposure to Earth system science and training/access to available curriculum support materials.

Higher Education Student Support

NASA intends to make up to 5 awards at approximately \$75,000 per year for up to three years (per award) to entities with unique and innovative proposals that provide summer research opportunities to primarily undergraduate students from a national base. The size of the grant is based on an estimate of approximately 12 student participants per institutional program year participating in a 4-6 week program. Student participants should meet university requirements for at least Junior level classification, with exception for community college participants.

Pre-Service Teacher Enhancement

NASA intends to make 12-20 awards, not to exceed \$20,000 per award per year for up to three years duration, to organizations that propose a unique and innovative way of providing emerging educators with a summer workshop opportunity to become familiar with Earth system science and receive introductory training on available curriculum support materials. One of the major objectives of this project is to expose the participants to the Earth system science holistic approach and recent scientific results. The second major objective is to provide hands-on training with Earth system science-related products.

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8. NATIONAL SCIENCE FOUNDATION

A) Alliances for Broadening Participation in STEM (ABP)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=13646&org=EHR&from=fund

Program Sector Focus: Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations , Other Federal agencies.

FY07 Budget: \$43,000,000

Range of Awards: \$17 M over 5 years for LSAMP, \$17 M over 2 years for BD, and \$9 M over 5 years for AGEP pending the availability of funds.

Number of Awards: 18 to 23 total: 3 to 4 LSAMP Cooperative Agreements of up to \$5 M each; 14 to 17 BD supplements of up to \$1 M each; and 1 to 2 AGEP Cooperative Agreements of up to \$5 M each.

Cost Sharing Requirements: None

Program Description: The two programs and one supplemental activity included under the Alliances for Broadening Participation in Science and Engineering (ABP) solicitation seek to increase the number of students successfully completing quality degree programs in science, technology, engineering and mathematics (STEM). Particular emphasis is placed on supporting groups that historically have been underrepresented in STEM: African Americans, Alaskan Natives, American Indians, Hispanic Americans and Native Pacific Islanders. ABP support begins at the baccalaureate level with the Louis Stokes Alliances for Minority Participation (LSAMP) program. For eligible students, significant financial support is continued for two years of graduate study via the Bridge to the Doctorate (BD) activity. Rounding out the ABP cluster are Alliances for Graduate Education and the Professoriate (AGEP), which further the graduate education of minority students through the doctorate level, preparing them for fulfilling opportunities and productive careers as STEM faculty and research professionals.

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B) Centers of Research Excellence in Science and Technology (CREST)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=6668&org=EHR&from=fund

Program Sector Focus: Informal and Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations , Other Federal agencies.

FY06 Budget: \$15,800,000

Range of Awards: \$9,700,000 - \$3,000,000 for CREST centers (\$1,000,000 1st year commitments), \$500,000 for CREST supplements and \$5,000,000 for HBCU-RISE grants. Up to \$600,000 from CREST and \$600,000 from SBIR for co-funded SBIR/STTR supplements

Number of Awards: 13 to 21 - - Up to 3 CREST center Cooperative Agreements, up to 5 CREST supplements, up to 5 HBCU-RISE standard grants, and up to 8 CREST SBIR/STTR supplements, pending the availability of funds

Cost Sharing Requirements: None

Program Description: The Centers of Research Excellence in Science and Technology (CREST) program makes resources available to enhance the research capabilities of minority-serving institutions through the establishment of centers that effectively integrate education and research. CREST promotes the development of new knowledge, enhancements of the research productivity of individual faculty, and an expanded diverse student presence in STEM disciplines. Awards are offered as new centers, supplements to existing centers, proposals for the CREST Historically Black Colleges and Universities Research Infrastructure for Science and Engineering (HBCU-RISE) initiative, or supplements for diversity collaboration for projects co-funded with NSF's Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) programs, which are administered by NSF's Directorate for Engineering.

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C) Communicating Research to Public Audiences

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=5362&org=EHR&from=fund

Program Sector Focus: Informal, K-12 and Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations, Other Federal agencies.

FY07 Budget: \$1,500,000

Range of Awards: up to \$75,000

Number of Awards: 20

Cost Sharing Requirements: None

Program Description: *Communicating Research to Public Audiences* is a component of the Informal Science Education program (ISE) in the Division of Elementary, Secondary, and Informal Education. ISE projects provide rich and stimulating contexts and experiences for individuals of all ages, interests, and backgrounds to increase their appreciation for, and understanding of, science, technology, engineering, and mathematics (STEM) in out-of-school settings. Requests for up to \$75,000 will be considered to support projects that communicate to public audiences the process and results of current research that is being supported by any NSF directorate through informal science education activities, such as media presentations, exhibits, or youth-based activities. The purpose of these efforts is to disseminate research results, research in progress, or research methods.

NOTE: This program is currently making grants ONLY to existing NSF Informal Science Education Principal Investigators.

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D) Course, Curriculum, and Laboratory Improvement (CCLI)

Agency: National Science Foundation

Program Website: www.nsf.gov/pubs/2005/nsf05559/nsf05559.htm

Program Sector Focus: Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations, Other Federal agencies.

FY06 Budget: \$31,000,000

Range of Awards: Phase 1, Exploratory Projects with a total budget up to \$150,000 (\$200,000 when four-year colleges and universities collaborate with two-year colleges) for 1 to 3 years; Phase 2, Expansion Projects with a total budget up to \$500,000 for 2 to 4 years; Phase 3, Comprehensive Projects with a total budget up to \$2,000,000 for 3 to 5 years

Number of Awards: 71 to 99 - including 55 to 70 Phase 1 awards, 15 to 25 Phase 2 awards, and 1 to 4 Phase 3 awards

Cost Sharing Requirements: None Required

Program Description: The Course, Curriculum, and Laboratory Improvement (CCLI) program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. Based on a cyclic model of knowledge production and improvement of practice, CCLI supports efforts that conduct research on STEM teaching and learning, create new learning materials and teaching strategies, develop faculty expertise, implement educational innovations, assess learning, and evaluate innovations. The program supports three types of projects representing three different phases of development, ranging from small exploratory investigations to comprehensive projects

The CCLI program has changed substantially for FY 2006. The program has increased its emphasis on projects that build on prior work and contribute to the knowledge base of undergraduate STEM education research and practice. In addition, projects should contribute to building a community of scholars who work in related areas of undergraduate education. Finally, the revised program requires proposals to explicitly identify a set of measurable outcomes that will be used in the project management and evaluation.

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E) Discovery Research K-12

Agency: National Science Foundation

Program Website: www.nsf.gov/pubs/2006/nsf06593/nsf06593.htm

Program Sector Focus: K-12 Education

Eligible Applicants: Universities, two- and four-year colleges, state and local education agencies, school districts, professional societies, research laboratories, informal science education centers, private foundations, or other public and private organizations whether for-profit or not-for-profit.

FY07 Budget: \$42,000,000

Range of Awards:

Number of Awards: 48 (approximately 12 Conference, 21 Exploratory, and 15 Full-Scale projects)

Cost Sharing Requirements: None Required

Program Description: The Discovery Research K-12 (DR K-12) solicitation represents a consolidation and re-alignment of the Teacher Professional Continuum (TPC), Instructional Materials Development (IMD) and Centers for Learning and Teaching (CLT) programs. DR-K12 forges strong connections between curriculum, assessment and professional development and encourages the research, development, and evaluation activities through which new knowledge is generated and applied. DR-K12 brings together STEM education faculty, mathematicians and scientists, cognitive scientists, teachers and administrators, and STEM education graduate students to conduct the research, develop resources and tools and build the nation's capacity to develop and test innovative solutions to improve K-12 teaching and learning. The following Grand Challenges build on strengths and partnerships unique to NSF and the communities it serves:

Grand Challenge 1: K-12 Mathematics and Science Assessments. With the implementation of *No Child Left Behind*, getting assessment "right" is more important than ever. With the growing knowledge of how people learn, it is critical to develop assessments that help teachers diagnose students' comprehension more precisely and accurately and to link good formative assessments to high stakes state tests. **Grand Challenge 2:**

Elementary Grades Science. It is generally agreed that significantly less is known about early science learning than about early reading and mathematics learning. Science is often not consistently part of the elementary school curriculum, despite the importance of early development of important concepts and skills. There have been significant recent advances in understanding children's cognitive development and further research in this area will add significantly to our nation's ability to provide elementary programs that promote conceptual understanding, motivate interest, and reduce achievement gaps for those with different backgrounds. **Grand**

Challenge 3: Cutting-Edge STEM Content in K-12 Classrooms. This challenge capitalizes on the richness of the discoveries by the nation's scientists, engineers, and mathematicians as a means of deepening the understanding of basic science, engineering, and mathematics. An extension of the Challenge is to infuse methodologies enabled by Cyberinfrastructure (CI) into K-12 education. This permits new and powerful ways of working with large data sets, modeling processes, and sharing resources. Proposals should be developed by collaborative partnerships that involve scientists, mathematicians, engineers, learning scientists, and educators. Collaborations with established centers in science, engineering, and STEM education are strongly encouraged.

To address these challenges, the DR-K12 program consists of three components: *Applied Research; Development of Resources and Tools; Capacity Building*. Component A, *Applied Research*, will support three categories of projects: Evaluative Studies of NSF-Funded Resources and Tools, Studies of Student Learning Progressions, and Studies of Teachers and Teaching. Component B, *Development of Resources and Tools*, will support two categories of projects: Assessment of Students' and Teachers' Learning and Instruction of K-12 Students and Teachers. Component C, *Capacity Building*, will support two categories of projects: STEM Systems Research and STEM Education Research Scholars. While each of these categories focuses on a particular set of issues in research and development, funded projects might address issues related to more than one category.

F) Dynamics of Coupled Natural and Human Systems (CNH)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=13681&org=ERE&from=home

Program Sector Focus: Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations , Other Federal agencies.

FY06 Budget: \$14,500,000

Range of Awards: up to \$2,000,000 per project, NSF will provide support through this competition for awards across a range of sizes from roughly \$500,000 to no more than \$1,500,000.

Number of Awards: 12-16

Cost Sharing Requirements: None Required

Program Description: The Dynamics of Coupled Natural and Human Systems (CNH) competition promotes quantitative, interdisciplinary analyses of relevant human and natural system processes and complex interactions among human and natural systems at diverse scales. This program provides educational opportunities for Undergraduate Students, Graduate Students, K-12 Educators. CNH aims to support basic research and related activities that enhance fundamental understanding of the complex interactions within and among natural and human systems. CNH focuses on the complex interactions among human and natural systems at diverse spatial, temporal, and organizational scales. CNH seeks to advance basic knowledge about the system **dynamics** -- the processes through which systems function and interact with other systems. Investigators must be examining relevant **natural AND human systems**. Proposals cannot focus solely or largely on either natural systems or on human systems if they want to be competitive. Projects also must examine the full range of **coupled** interactions and feedbacks among relevant systems.

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G) Informal Science Education (ISE)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=5361&org=EHR&from=fund

Program Sector Focus: Informal Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations, Other Federal agencies.

FY07 Budget: \$25,000,000

Range of Awards: ISE Project Grants: Project duration may be from one to five years. The level of funding depends on the nature and scope of the project. Awards may range from \$100,000 to a maximum of \$3 million for up to five years, with the exception of the Informal Science Education Resource Center, which may be funded to a maximum of \$5 million over five years.

Planning Grants: Project duration is to be no more than two years. The maximum award is \$75,000.

Conference, Symposia, and Workshop Grants: Project duration is expected to be no more than two years. The range for these awards is approximately \$50,000 to \$250,000.

Grant Supplements: The maximum award is \$200,000 or 20% of the total amount of the original award, whichever is less. (This limitation does not apply to cooperative agreements.)

Number of Awards: 50

Cost Sharing Requirements: None Required

Program Description: The ISE program invests in projects that develop and implement informal learning experiences designed to increase interest, engagement, and understanding of science, technology, engineering, and mathematics (STEM) by individuals of all ages and backgrounds, as well as projects that advance knowledge and practice of informal science education. Projects may target either public audiences or professionals whose work directly affects informal STEM learning. ISE projects are expected to demonstrate strategic impact, innovation, and collaboration.

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H) Education and Research Traineeship (IGERT)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=12759

Program Sector Focus: Higher Education

Eligible Applicants: .academic institutions in the United States, its territories or possessions that grant the Ph.D. degree in the sciences and engineering

FY07 Budget: \$12,000,000

Range of Awards: 1st year award: up to \$400,000; renewals: up to \$600,000

Number of Awards: 20

Cost Sharing Requirements: None

Program Description: The Integrative Graduate Education and Research Traineeship (IGERT) program has been developed to meet the challenges of educating U.S. Ph.D. scientists and engineers who will pursue careers in research and education, with the interdisciplinary backgrounds, deep knowledge in chosen disciplines, and technical, professional, and personal skills to become, in their own careers, leaders and creative agents for change. The program is intended to catalyze a cultural change in graduate education, for students, faculty, and institutions, by establishing innovative new models for graduate education and training in a fertile environment for collaborative research that transcends traditional disciplinary boundaries. It is also intended to facilitate diversity in student participation and preparation, and to contribute to the development of a diverse, globally-engaged, science and engineering workforce.

Examples of Funded Programs:

- Achieving Environmental, Industrial, and Societal Sustainability via the Sustainable Futures Model (Michigan Technological University and Southern University and A&M College)
- Vulnerability and Sustainability in Coupled Human-Natural Systems: An Integrative Traineeship in Sustainability and the Global Environment (University of Wisconsin, Madison)
- Sustainability Initiative in Engineering (University of Pittsburgh)
- Biodiversity Conservation and Sustainable Development (University of Wisconsin, Madison)
- Carbon, Climate and Society (University of Colorado, Boulder)
- Urban Environmental Sustainability (University of Southern California)
- Sustainable Energy from Solar Hydrogen (University of Delaware)
- Resilience and Adaptation Program (University of Alaska Fairbanks)

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I) NSF Academies for Young Scientists (NSFAYS)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=13677&org=EHR&from=fund

Program Sector Focus: Informal and K-12 Education

Eligible Applicants: Four partners are required for Project proposals: (1) a school district, a consortium of schools within a district, or a consortium of districts; (2) business(es)/industry(ies) within the community; (3) a College of Education that prepares and/or certifies teachers; and (4) an informal science education organization. There are no organizational limits for Center proposals.

FY06 Budget: \$14,000,000 pending availability of funds.

Range of Awards: NSFAYS Projects: maximum funding \$800,000 each; NSFAYS Research and Evaluation Center: maximum funding of \$1,400,000

Number of Awards: 7 to 19 including 16 to 18 NSFAYS Projects

Cost Sharing Requirements: None

Program Description: NSF seeks to support NSFAYS Projects that will create, implement, evaluate, and disseminate effective models to attract K-8 students to, prepare them for, and retain them in science, technology, engineering, and mathematics (STEM) disciplines, leading to an increase in the pool of students continuing in STEM coursework in high school and considering careers in STEM fields. Models must be built on sustainable partnerships of formal and informal education providers, business/industry, and Colleges of Education. The Foundation solicits highly innovative projects that expose students to innovative out-of-school time (OST) learning experiences that demonstrate effective synergies with in-school curricula, and take full advantage of the special attributes of each educational setting in synergistic ways. Projects should structure highly motivational experiences for students while providing essential STEM preparation. Professional development for classroom teachers and OST education providers will be critical to the success of NSFAYS Projects. The portfolio of NSFAYS Projects is intended to explore a variety of implementation models in urban, rural and suburban settings representing diverse student populations. This portfolio of projects, taken as a whole, should inform NSF and the broader educational community of what works and what does not, for whom, in what settings. One NSFAYS Research and Evaluation Center will be funded to provide research and evaluation support for the NSFAYS program. It is anticipated that the Center will synthesize research emerging from the funded NSFAYS Projects and have responsibility for national dissemination of program models, findings, and best practices.

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J) NSF Cooperative Activity with Department of Energy Programs for Education and Human Resource Development

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=5632&org=EHR&from=fund

Program Sector Focus: Higher Education

Eligible Applicants: The Principal Investigators (PIs) of National Science Foundation (NSF) awards managed by one of the NSF programs serving STEM education are invited to consider participating in a cooperative effort between NSF and the Department of Energy (DoE) Office of Science.

Advanced Technological Education (ATE)

Centers for Learning and Teaching (CLT)

Centers of Research Excellence in Science and Technology (CREST)

Computer Science, Engineering, and Mathematics Scholarships (CSEMS)

Research on Gender in Science and Engineering (GSE)

Historically Black Colleges and Universities Undergraduate Program (HBCU-UP)

Louis Stokes Alliances for Minority Participation (LSAMP)

Model Institutions for Excellence (MIE)

Math and Science Partnership (MSP): Comprehensive and Targeted Projects

Robert Noyce Scholarship Program

NSF Collaboratives for Excellence in Teacher Preparation (CETP)

Research in Disabilities Education (RDE)

Science, Technology, Engineering, and Mathematics Teacher Preparation (STEMTP)

Teacher Professional Continuum (TPC) Program

Tribal Colleges and Universities Program (TCUP)

FY07 Budget: \$565,500

Range of Awards: \$4,500 for each student, up to \$12,000 for faculty

Number of Awards: 91 students and 13 faculty

Cost Sharing Requirements: None

Program Description: This is a cooperative effort between NSF and the Department of Energy (DoE) Office of Science. To support the continued leadership of the United States in science, technology, engineering, and mathematics (STEM) and the continued development of a competitive, diverse STEM workforce, NSF and DoE are implementing collaboration between the agencies' programs for the development of human resources in STEM. NSF and DoE will support students and faculty from eligible NSF projects who are accepted as participants in one of four DoE initiatives that provide hands-on research opportunities in DoE national laboratories during the summer: Science Undergraduate Research Internships (SULI), Faculty and Student Teams (FaST), Community College Institute of Science and Technology (CCI), and Pre-Service Teacher (PST) Internships.

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K) NSF Graduate Teaching Fellows in K-12 Education (GK-12)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=5472&org=EHR&from=fund

Program Sector Focus: Higher Education

Eligible Applicants: Only academic institutions in the United States and its territories that grant masters or doctoral degrees in STEM disciplines supported by the National Science Foundation (NSF) may submit proposals.

FY06 Budget: \$16,000,000

Range of Awards: Up to \$600,000

Number of Awards: 25 including new and continuing projects

Cost Sharing Requirements: None

Program Description: This program provides funding to graduate students in NSF- supported science, technology, engineering, and mathematics (STEM) disciplines to acquire additional skills that will broadly prepare them for professional and scientific careers in the 21st century. Through interactions with teachers in K-12 schools, graduate students can improve communication and teaching skills while enriching STEM instruction in K-12 schools. Through this experience graduate students can gain a deeper understanding of their own scientific research. In addition, the GK-12 program provides institutions of higher education with an opportunity to make a permanent change in their graduate programs by incorporating GK-12 like activities in the training of their STEM graduate students. Expected outcomes include improved communication, teaching and team building skills for the fellows; professional development opportunities for K-12 teachers; enriched learning for K-12 students; and strengthened partnerships between institutions of higher education and local school districts.

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L) Opportunities for Enhancing Diversity in the Geosciences (OEDG)

Agency: National Science Foundation

Program Website: www.nsf.gov/funding/pgm_summ.jsp?pims_id=12726&org=ERE&from=home

Program Sector Focus: Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations, Other Federal agencies.

FY06 Budget: \$4,6000,000

Range of Awards: Track 1 awards are for a maximum duration of 2 years. The maximum allowable funding request under Track 1 is \$100,000, but the average award size is expected to be on the order of \$50,000 - \$75,000. Track 2 awards are for a maximum duration of 5 years. The maximum allowable funding request under Track 2 is \$2 million, but the average award size is expected to be on the order of \$1 million.

Number of Awards: Total: 42, Track 1: 35, Track 2: 7

Cost Sharing Requirements: None Required

Program Description: The Directorate for Geosciences of the National Science Foundation supports research and education in the atmospheric, earth, and ocean sciences. The Opportunities for Enhancing Diversity in the Geosciences (OEDG) program is designed to address the fact that certain groups are underrepresented in the geosciences relative to the proportions of those groups in the general population. The primary goal of the OEDG program is to increase participation in the geosciences by African Americans, Hispanic Americans, Native Americans (American Indians and Alaskan Natives), Native Pacific Islanders (Polynesians or Micronesians), and persons with disabilities. A secondary goal of the program is to increase the perceived relevance of the geosciences among broad and diverse segments of the population. The OEDG program supports activities that will increase the number of members of underrepresented groups that:

- Are involved in formal pre-college geoscience education programs;
- Pursue bachelor, master, and doctoral degrees in the geosciences;
- Enter geoscience careers; and
- Participate in informal geoscience education programs.

The OEDG program consists of two tracks, *Track 1: Proof-of-Concept Projects*, and *Track 2: Full-Scale Projects*. **Track 1: Proof-of-Concept Projects** supports short-term activities. Track 1 projects include activities that will occur only one time, as well as those that are intended as the testing phase of an anticipated long-term *Full-Scale Project*. **Track 2: Full-Scale Projects** supports longer-term activities that will identify and promote pathways to geoscience careers among members of underrepresented groups. Proposals to the OEDG competition are solicited every other year. The next competition will be held in FY 2006.

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M) Research and Evaluation on Education in Science and Engineering (REESE)

Agency: National Science Foundation

Program Website: www.nsf.gov/pubs/2006/nsf06537/nsf06537.htm#elig

Program Sector Focus: Higher Education

Eligible Applicants: Universities and colleges, Non-profit, non-academic organizations, For-profit organizations, State and Local Governments, Unaffiliated Individual, Foreign organizations, Other Federal agencies.

FY06 Budget: \$10,000,000

Range of Awards: The maximum award for Synthesis Research and Evaluation projects is \$200,000 with a duration of 1 to 3 years. The maximum award size for Empirical Research and Evaluation Projects is \$1,000,000 with a duration of 3 to 5 years.

Number of Awards: 25 to 32

Cost Sharing Requirements: None

Program Description: The Division of Research, Evaluation and Communication (REC) in the Directorate for Education and Human Resources (EHR) of the National Science Foundation (NSF) supports basic and applied research and evaluation that enhances science, technology, engineering and mathematics (STEM) learning and teaching. This solicitation calls for two types of proposals—synthesis and empirical.

- *Synthesis Research and Evaluation Project proposals* should identify areas where the knowledge base in either evaluation or research is sufficiently robust to support strong scientific claims, identify areas of importance to education research and practice, and propose rigorous methods for synthesizing findings and drawing conclusions. Proposals for workshops and other meetings are permitted.
- *Empirical Research and Evaluation Project proposals* should identify areas that have the potential for advancing discovery and innovation at the frontiers of STEM learning. These proposals are expected to be based deeply in the STEM disciplines and be theoretically and methodologically strong with the potential of contributing to theory, methodology, and practice.

For either type of proposal, areas of interest include behavioral, cognitive, social, and technological aspects of learning and education; learning in formal and informal settings; diffusion, implementation, and the role of context in educational and learning innovations; and theoretical, methodological, and statistical issues of importance in advancing research and evaluation. Investigators from across the broad range of disciplines supported by the NSF are invited to submit proposals. Interdisciplinary proposals are particularly welcome.

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N) Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP)

Agency: National Science Foundation

Program Website: www.nsf.gov/pubs/2006/nsf06502/nsf06502.htm#pgm_desc_txt

Program Sector Focus: Higher Education

Eligible Applicants: Type 1 proposals are invited from academic institutions in the United States and its territories, from consortia thereof, or from nonprofit organizations that have established consortia among such academic institutions. Type 2 proposals are invited from any individual or organization eligible to submit proposals to the NSF.

FY06 and 07 Budget: \$25,000,000

Range of Awards:

Number of Awards: 15 to 20 Type 1 awards (2006), 15-20 Type 1 awards and 1-3 Type 2 awards in FY 2007

Cost Sharing Requirements: None Required

Program Description: The Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) seeks to increase the number of students (U.S. citizens or permanent residents) receiving associate or baccalaureate degrees in established or emerging fields within science, technology, engineering, and mathematics (STEM). Type 1 proposals are solicited that provide for full implementation efforts at academic institutions. Type 2 proposals are solicited that support educational research projects on associate or baccalaureate degree attainment in STEM.

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- Harry G. Ungar, Program Director, telephone: (703) 292-4647, email: hungar@nsf.gov
- Bevelee A. Watford, Program Director, telephone: (703) 292-5323, email: bwatford@nsf.gov
- Terry S. Woodin, Program Director, telephone: (703) 292-4657, email: twoodin@nsf.gov

9. Corporation for National and Community Service

A) Learn and Serve America Program

Agency: Corporation for National and Community Service

Program Name: Learn and Serve America Program

Program Website: www.learnandserve.gov/for_organizations/funding/index.asp

Program Sector Focus: Informal Education, K-12 and Higher Education

Eligible Applicants: Nonprofit Groups, Educational Institutions, State/Territorial Agencies, Tribal Agencies

FY07 Budget: \$37,000,000

Range of Awards: \$200,000-2,400,000

Number of Awards: varies

Cost Sharing Requirements: Required

Higher Education Program Description: The purpose of higher education grants are to expand participation in community service and service-learning by supporting innovative community service programs carried out through institutions of higher education that act as civic institutions to meet the human, educational, environmental, or public safety needs of neighboring communities. Emphasis is placed both on institutional change to support service and service-learning within higher education and on community problem-solving and capacity-building. Learn and Serve America Higher Education Grants support a variety of community service and service-learning activities including: creating and expanding community service and service-learning programs; training faculty, K-12 teachers, and others to conduct service-learning; integrating service-learning into professional education programs; strengthening the service-learning infrastructure within higher education institutions; and supplementing community service and service-learning activities through Federal Work-Study (FWS) programs. Participants in higher education programs include graduate and undergraduate students, faculty, staff, and community members.

Contact: Amiko Matsumoto, LSAHigherEd@cns.gov, 202-606-7510

K-12 School-based Program Description: This competition is devoted to expanding high-quality service-learning in K-12 schools with the purpose of helping the Corporation reach its goal of fostering service-learning in at least fifty percent of all public schools by the year 2010. This competition is also intended to increase the proportion of Learn and Serve participants who come from disadvantaged backgrounds from forty percent to sixty percent. Learn and Serve School-Based grants provide funds to State Education Agencies (SEAs) and Grant Making Entities (GMEs), which must make subgrants to state-defined Local Education Agencies (LEAs) that are in partnership with at least one additional organization. LEA partners may include private schools, for-profit businesses, faith-based organizations, other nonprofits, and institutions of higher education. LEA partnerships are responsible for implementation, replication, and expansion of service-learning activities in local communities. **Contact:** Scott Richardson, LSASchool@cns.gov, 202-606-7510

Community-based Program Description: The purpose of this grant competition is to promote the development and sustainability of high-quality community-based service-learning programs in youth-serving community organizations across the nation. Funds will be used by intermediary organizations to create curriculum materials; support training and technical assistance activities; make subgrants to local organizations that will implement service-learning programs for youth ages five to seventeen; and strengthen, expand, and anchor a network of youth-serving community-based organizations that implement service-learning programs. Applicants are encouraged to develop proposals that demonstrate their ability to engage significant numbers of youth ages five to seventeen, particularly youth in disadvantaged circumstances, in high-quality service-learning; create new, or strengthen existing, partnerships with a variety of youth-serving institutions (K-12 schools, colleges, volunteer centers, faith-based organizations, etc); engage youth in intensive service-learning through the summer and/or other school holidays; and develop programs that leverage additional resources, including volunteers, at the local level. **Contact:** Brad Lewis, LSAcommunity@cns.gov, 202-606-7510