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ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

Requirements: Doctorate

The pursuit of new scientific and engineering knowledge and its use in service to society requires the talent, perspectives and insight that can only be assured by increasing diversity in the science, engineering and technological workforce. Despite advances made in the proportion of women choosing to pursue science and engineering careers, women continue to be significantly underrepresented in almost all science and engineering fields, constituting only approximately 25% of the science and engineering workforce at large, and less than 21% of science and engineering faculty in 4-year colleges and universities. Women from minority groups underrepresented in science and engineering constitute only about 2% of science and engineering faculty in 4-year colleges and universities.

The goal of the ADVANCE program is to increase the representation and advancement of women in academic science and engineering careers, thereby contributing to the development of a more diverse science and engineering workforce. Creative strategies to realize this goal are sought from men and women. Members of underrepresented minority groups and individuals with disabilities are especially encouraged to apply. Proposals that address the participation and advancement of women from underrepresented minority groups are encouraged.

Eligibility: Institutional Transformation Awards

Institutional Transformation proposals may be submitted by academic institutions of higher learning in the U.S., its territories or possessions, or the Commonwealth of Puerto Rico, that award degrees in a field supported by NSF. Partnerships involving industry, government, professional societies and other not-for-profit organizations are encouraged but not required; however, in the case of partnerships, the lead partner organization must be an academic institution of higher learning and must accept overall management responsibility for the activity. Government organizations (other than academic institutions of higher learning) are not eligible to apply, but may participate in partnerships when the lead partner organization is an academic institution of higher learning with overall management responsibility for the activity. Partner organizations and institutions must be based in the U.S., its territories or possessions, or the Commonwealth of Puerto Rico.

Organizations currently holding NSF ADVANCE Institutional Transformation awards are not eligible to apply for an institutional transformation award.

Leadership Awards, and Partnerships for Adaptation, Implementation and Dissemination Awards

Leadership, and Partnerships for Adaptation, Implementation and Dissemination proposals, may be submitted by: academic institutions of higher learning that award degrees in a field supported by NSF; professional societies; or other not-for-profit organizations. Submitting institutions and organizations must be based in the U.S., its territories or possessions, or the Commonwealth of Puerto Rico. Government organizations (other than academic institutions of higher learning) are not eligible to apply, but may participate in partnerships when the lead partner organization is an academic institution of higher learning with overall management responsibility for the activity. Partner institutions and organizations must be based in the U.S., its territories or possessions, or the Commonwealth of Puerto Rico.

Website: <http://www.nsf.gov/pubs/2005/nsf05584/nsf05584.htm>

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American Psychological Association of Graduate Students (APAGS): Funding Opportunities

Website: <http://www.apa.org/apags/members/funding.html>

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American Psychological Foundation (APF)

Website: <http://www.apa.org/apf/grants.html>

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APA-Wide Grants and Funding Opportunities from the Education Directorate

Website: <http://www.apa.org/ed/grants.html>

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Arctic Research and Education

Requirements: None specified

The National Science Foundation (NSF) invites investigators at U.S. organizations to submit proposals to conduct research in the Arctic including field and modeling studies and data analysis. The goal of the NSF Arctic Sciences Section is to gain a better understanding of the Earth's physical, biological, geological, chemical, social and cultural processes, and the interactions of ocean, land, atmosphere, biological, and human systems in the Arctic.

Arctic research is supported at NSF by the Office of Polar Programs (OPP; <http://www.nsf.gov/od/opp>) in the Office of the Director, as well as by a number of other programs within the Foundation. Program representatives from OPP and other NSF programs that support arctic research coordinate across NSF, including joint review and funding of arctic proposals, as well as mutual support of special projects with high logistical costs.

The OPP Arctic Social Sciences Program (ASSP) encompasses all social sciences supported by NSF. These include, but are not limited to anthropology, archaeology, economics, geography, linguistics, political science, psychology, science and technology studies, sociology, traditional knowledge and related subjects.

Although unsolicited proposals in any of the social sciences mentioned above are welcome, areas of particular interest include culture and environment, resources and economic change, development of social and political institutions, ethnic (cultural) and regional identities, and knowledge systems. These five research areas are identified and explained in the report, Arctic Social Sciences: Opportunities in Arctic Research (Arctic Research Consortium of the United States, June 1999, Fairbanks, Alaska. Available through the Arctic Research Consortium at <http://www.arcus.org>).

The Arctic Social Sciences Program especially encourages projects that are circumpolar and/or comparative; involve collaborations between researchers and those living in the Arctic; or form partnerships among disciplines, regions, researchers, communities, and/or students (K-12, undergraduate, or graduate). Dissertation research proposals will be accepted. Please consult the "Dissertation Panel

Advice to Students" guidelines in the Division of Behavioral and Cognitive Sciences (DBCS; <http://www.nsf.gov/sbe/bcs/anthro/cultdadv.htm>). These guidelines are to provide the applicant with a basic outline for their proposals. Applicants should apply to this OPP solicitation and talk to the ASSP program director about funding limits, which vary from those in DBCS.

Website: <http://www.nsf.gov/pubs/2005/nsf05514/nsf05514.htm#bass>

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#### Cancer Research Interns in Residence

Requirements: Undergraduate or Graduate

Program Description: The Cancer Research Interns in Residence (CRIR) Program was inaugurated in 2004 to further embrace diversity among the pool of trainee applicants. Over the past two years 101 students were recruited and 68 placed in labs across the CCR. The Office of Training and Education provided the training dollars, Service & Supply funds, and housing for financially qualified students in accordance with the Federal Register 67 FR 46529 dated July 15, 2002. For 2006, we have expanded our network of colleges, universities and minority-targeted programs to bring a new group of interns to the Center for Cancer Research. Any students interested in the CCR-Cancer Research Interns in Residence Program should apply on-line through the NIH Office of Education website. Applicants must also e-mail Jonathan Wiest or Vi Black to indicate their interest in the Program and provide a statement of interest (details will be provided with the forthcoming 2006 Program flier) after they submit their applications on line. This will help to facilitate the placement of students within laboratories.

Applicants must be:

- \* U.S. citizens or permanent residents
- \* 18 or older
- \* students with research interests that are cancer-related from under-represented groups or disadvantaged backgrounds
- \* Academic requirement: GPA of 3.0 or higher

Website: [http://ccr.cancer.gov/careers/student\\_programs.asp](http://ccr.cancer.gov/careers/student_programs.asp)

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Centers for Learning and Teaching

Requirements: Must already be funded by the Centers for Learning and Teaching

The Centers for Learning and Teaching (CLT) program seeks to fund supplements to awards made under the Centers for Teaching and Learning (CTL) and Centers for Learning and Teaching solicitations that:

- \* exemplify rigorous qualitative and quantitative methods to synthesize what has been learned through the collective work of the centers;
- \* disseminate that knowledge to key audiences (e.g., policymakers, researchers, practitioners); and
- \* identify directions for further research and development.

The Accumulating What We've Learned initiative is intended to document CLT program contributions to a growing knowledge base supporting science, technology, engineering, and mathematics (STEM) education. The results of this initiative are intended to complement findings of the CLT program evaluation (See Final Report on the Evaluation of the National Science Foundation's Centers for Learning and Teaching Program. Volume I: Technical Report. Cambridge, MA: Abt Associates and SRI International, March 2005). The CLT program intends to evaluate the overall impact of what is produced by the activities funded by these supplements. Additionally, the program intends to provide support within the next year for a longitudinal study of the impact of the program on CLT doctoral graduates.

Eligibility: Organization Limit: Only currently funded CTL and CLT centers are eligible to submit proposals for supplemental funding under this initiative. A center may receive only one supplement under this DCL as the lead organization.

A center may be the lead organization on no more than one proposal per deadline, but may be included in other proposals in which it is not the lead. However, see the "Limit on Number of Proposals" below. A center that receives a supplement as the lead organization under a proposal to the December 12, 2005 deadline is not eligible to submit a proposal as the lead organization to the August 21, 2006 deadline.

PI Eligibility Limit: The Principal Investigator of such a proposal must be the PI or a COPI of the center.

Website: <http://www.nsf.gov/pubs/2005/nsf05613/nsf05613.jsp>

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#### Centers of Research Excellence in Science and Technology

Requirements: Doctorate

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.

Eligibility: CREST proposals are invited from minority-serving institutions of higher education in the United States. This denotes institutions that have enrollments of 50% or more of members of minority

groups underrepresented among those holding advanced degrees in science and engineering fields: Alaskan Natives, African Americans, American Indians, Hispanic Americans, and Native Pacific Islanders. Preference will be given to institutions with demonstrated strengths in NSF-supported fields, as evidenced by a developing capacity to offer doctoral degrees in one or more science, technology, engineering, or mathematics disciplines. Institutions must also demonstrate a willingness and capacity to serve as a resource center in one or more research areas, as well as possess a demonstrated commitment and track record in enrolling and graduating minority scientists and engineers, and strong collaborations in the proposed field of research. Priority consideration will be given to science and engineering disciplines or research areas where minorities are significantly underrepresented.

**PI Eligibility Limit:** Principal investigators for CREST and HBCU-RISE awards must be United States citizens or nationals, or permanent resident aliens of the United States. PIs must also be employed by a CREST or HBCU-RISE-eligible institution.

**Limit on Number of Proposals:** Only one CREST center proposal may be submitted per eligible institution (see the Eligibility Information section of the Summary of Program Requirements for the definition of "eligible institution"). An institution may have only one active CREST award. Institutions that have had two prior CREST awards may not compete in the CREST centers competition until two years after the expiration date of the second award. At that time, new research teams from former awardee institutions may submit proposals in disciplinary areas that are completely different from those of the previous award(s). Only one HBCU-RISE proposal may be submitted per eligible institution (see the Eligibility Information section of the Summary of Program Requirements for the definition of "eligible institution"). An institution may have only one active HBCU-RISE award.

Website: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=6668](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6668)

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### Clinical Research Loan Repayment Program

Requirements: Clinical Researcher

**Program Description:** The Clinical Research LRP is a vital component of our nation's efforts to attract health professionals to careers in clinical research.

In exchange for a two-year commitment to your clinical research career, NIH will repay up to \$35,000 per year of your qualified educational debt, pay an additional 39% of the repayments to cover your Federal taxes, and may reimburse state taxes that result from these payments.

**Program eligibility:** doctoral-level clinical researchers with a domestic nonprofit or U.S government (Federal, state or local) funding. To participate, you must be a U.S. citizen (or U.S. national or permanent resident) and have a M.D., Ph.D., Psy.D., Pharm. D., D.O., D.D.S., D.M.D., D.P.M., D.C., N.D., or equivalent doctoral degree from an accredited institution. [NOTE: Applicants with a doctorate of veterinary medicine (D.V.M.) are not eligible for the Clinical Research Loan Repayment Program unless they also hold one of the degrees listed above}. You must conduct clinical research for 50% of your time (at least 20 hours weekly based on a 40 hour week) for two years, and your research MUST be supported by a domestic nonprofit institution or by a U.S. Government (Federal, state, or local) entity. Also, the research must not be prohibited by Federal law or NIH policy. [Click here for additional eligibility criteria.]

Website: <http://lrp.info.nih.gov/about/lrp-clinical.htm>

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## Clinical Research Loan Repayment Program for Individuals from Disadvantaged Backgrounds

Requirements: Doctorate

The Clinical Research LRP for Individuals from Disadvantaged Backgrounds is a vital component of our nation's efforts to attract health professionals to careers in clinical research. In exchange for a two-year commitment to your research career, NIH will repay up to \$35,000 per year of your qualified repayable educational debt, pay an additional 39% of the repayments to cover your Federal taxes, and may reimburse state taxes that result from these payments.

To participate, you must be a U.S. citizen (or U.S. national or permanent resident) and have a M.D., Ph.D., Psy.D., Pharm. D., D.O., D.D.S., D.M.D., D.P.M., D.C., N.D., or equivalent doctoral degree from an accredited institution. [NOTE: Applicants with a doctorate of veterinary medicine (D.V.M.) are not eligible for the Clinical Research Loan Repayment Program for Individuals from Disadvantaged Backgrounds unless they also hold one of the degrees listed above]. You must conduct clinical research for 50% of your time (at least 20 hours weekly based on a 40 hour week) for two years and it must be funded by a domestic nonprofit or U.S. Government (Federal, state or local) entity. Also, the research must not be prohibited by Federal law or NIH policy.

Website: <http://www.lrp.nih.gov/about/lrp-disadv.htm>

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## Community College Institute of Science and Technology

Requirements: Undergraduate student in a community college or accredited two year college

Program Descriptions: Students who are majoring in any branch of science, math, engineering and technology are encouraged to apply.

This program places students from community colleges in paid internships in Science and Engineering and Technology at any of several different locations (see Choosing a Lab). Because of the comprehensive nature of this program many of the participants have felt it has had an enormous influence on their careers. Students work with scientists or engineers on projects related to the laboratories' research programs. They also attend career planning and numerous training/informational sessions. The different laboratories each offer different research opportunities (see Choosing a Lab).

To be eligible, applicants:

1. Must be currently enrolled full time as an undergraduate student in a community college or accredited two year college and completed at least one semester.
2. Must be 18 years or older at the start of the program.
3. Must be United States Citizen or Permanent Resident Alien.
4. Must have earned a high school diploma or GED.
5. Can participate in a maximum one CCI internship.
6. Must have coverage under a health insurance plan. It is the responsibility of each participant to secure insurance coverage before arriving at the appointment site.

7. Must be enrolled in at least six hours of coursework at the time of application.
8. Must be interested in a career in science, engineering, or technology (including computer science).
9. Students must have passed at least 12 credit hours of coursework toward a degree (with at least 6 credit hours in science, mathematics, engineering, or technology courses) at the community college at the time the application is submitted.

Website: <http://www.scied.science.doe.gov/scied/CCI/about.html>

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#### Course, Curriculum, and Laboratory Improvement

Requirements: Doctorate

Program Description: The CCLI program is based on a cyclic model of the relationship between knowledge production and improvement of practice in undergraduate STEM education, adapted from the report, "Mathematical Proficiency for All Students" (see <http://www.rand.org/publications/MR/MR1643>). In this model, research findings about learning and teaching challenge existing approaches, leading to new educational materials and teaching strategies. New material and teaching strategies that show promise lead to faculty development programs and methods that incorporate these materials. The most promising of these developments are first tested in limited environments and then implemented and adapted in diverse curricula and educational practices. These innovations are carefully evaluated by assessing their impact on teaching and learning. In turn, these implementations and assessments generate new insights and research questions, initiating a new cycle of innovation.

Proposals are invited from all organizations and in any field eligible under the standard GPG guidelines. Specifically excluded are projects that address solely professional training in clinical fields such as medicine, nursing, and clinical psychology. There is no limit on the number of proposals an organization may submit. An individual may be the lead PI on only one proposal submitted for any deadline. There is no restriction on the number of proposals for which a person may serve as a co-PI.

Website: <http://www.nsf.gov/pubs/2005/nsf05559/nsf05559.htm>

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#### Department of Defense National Defense Science & Engineering Graduate (NDSEG) Fellowship Program

Program Description: The NDSEG Fellowship Program is a joint program of the United States Army, Navy and Air Force within the University Research Initiative (URI), designed to increase the number of U.S. citizens trained in disciplines of science and engineering important to defense goals. DoD awards approximately 100-150 new three-year graduate fellowships each year to individuals for study and research leading to doctoral degrees in, or closely related to, the disciplines of aeronautical and astronautical engineering; biosciences, chemical engineering; chemistry; cognitive, neural, and behavioral sciences; electrical engineering; geosciences; civil engineering; computer and computational sciences; materials science and engineering; mathematics; mechanical engineering; naval architecture and ocean engineering; oceanography; and physics.

Eligibility: Applicants must be citizens or nationals of the United States who intend to pursue a Ph.D. in one of the designated fields. The Fellowships are intended for students at or near the beginning of graduate study. Applications are encouraged from women, underrepresented minorities and persons with disabilities. NDSEG Fellows may enroll in any appropriate nonprofit United States institution of higher education offering a Ph.D. degree in science or engineering. Fellows are eligible to participate in research at Navy laboratories during the summer.

Tenure: The tenure of an NDSEG Fellowship is 36 months. Recipients of new three-year fellowships must begin tenure not later than the fall following the award.

Stipends and Allowances: Consult the current program announcement for stipend levels. In addition to stipends, the DoD pays the Fellow's full tuition and required fees (not to include room and board). Persons with disabilities are considered for increased stipends to offset special educational expenses.

Evaluation and Selection: The evaluation of applicants is based on all available evidence of ability, as provided in the application. Each application is evaluated by a panel having expertise related to the science or engineering discipline of the applicant's proposed advanced degree program.

Conditions of Appointment: Fellows are required to enroll in full-time programs leading to graduate degrees in one of the designated fields in order to pursue a Ph.D. degree. The availability of funds for the second and third years of a three-year award is contingent upon certification to DoD that the Fellow has made satisfactory academic progress.

Website: <http://www.asee.org/ndseg>

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## Developing Global Scientists and Engineers

Requirements: Doctorate or doctorate dissertation research

This solicitation addresses opportunities for international research and education for the early career stages of scientists and engineers, i.e., as undergraduate and graduate students.

For the United States to remain at the forefront of world science and technology, it needs an educated science and engineering workforce capable of operating in the international research environment and a global market. Office of International Science and Engineering (OISE) programs complement and enhance the Foundation's broader research and education portfolio and provide a set of programs designed to assist scientists and engineers at several critical stages early in their careers. This solicitation describes support for research experiences for undergraduate and graduate students, and support for doctoral dissertation enhancement awards. The goal of these activities, and the related activities described below, is to build a more inclusive and globally-engaged workforce that fully reflects the strength of our diverse population.

NSF does not normally provide support for technical assistance, pilot plant efforts, research requiring security classification, development of products for commercial marketing or market research for a particular project or invention. Similarly, research with disease-related goals, including work on the etiology, diagnosis or treatment of physical or mental disease, abnormality, or malfunction in human beings or animals, is normally not supported by OISE.

For a summary of all OISE supported activities, including other programs that contribute to development of a cadre of global scientists and engineers, check the OISE homepage.

Proposals must be submitted by a U.S. institution, organization, or professional society on behalf of the Principal Investigator(s). Doctoral Dissertation Enhancement Project (DDEP) proposals must be submitted by the faculty advisor of the graduate student whose dissertation project is the subject of the proposal.

Website: <http://www.nsf.gov/pubs/2004/nsf04036/nsf04036.htm>

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#### Director's Award for Distinguished Teaching Scholars

Requirements: Educator

Program Description: The purpose of the National Science Foundation Director's Award for Distinguished Teaching Scholars is to recognize and reward individuals who have contributed significantly to the scholarship of their discipline and the education of students in science, technology, engineering, and mathematics (STEM), and to enable the expansion of their efforts. Awardees will be honored for their leadership in their respective fields as well as for their innovations and effectiveness in facilitating student learning in STEM disciplines. The National Science Foundation (NSF) will identify distinguished teaching scholars from among those faculty who are both meritorious scholars and exemplary educators, as evidenced by their ability to integrate their research and educational activities, and to approach research and education in a scholarly manner.

The Director's Award embodies the high priority the NSF places on promoting the efforts of outstanding scientists, mathematicians, and engineers working at the frontiers of scientific knowledge who are also committed to advancing the frontiers of STEM education. The Award will foster innovative and far-reaching developments in STEM education, increase awareness of careers in science and engineering, give recognition to the scientific and educational missions of the NSF, enhance connections between fundamental research and education, and highlight the importance to the Nation's future of citizens who are informed about STEM.

The award will be given to those individuals who demonstrate a combination of past accomplishments and the potential for future contributions. The selection of DTS awardees will involve a two-step process. Nominations of candidates for recognition as distinguished teaching scholars will be peer reviewed, and, on the basis of supporting documentation, a subset of the nominees will be invited to submit a proposal for a project whose objectives are consistent with the goals of the DTS program. Details of what should be included in the nomination documents and subsequent proposal are described in the section on Proposal Preparation and Submission.

Website: <http://www.nsf.gov/pubs/2004/nsf04594/nsf04594.htm#elig>

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#### Dwight David Eisenhower Transportation Fellowship Program

Requirements: Graduate student

Program Description: The EISENHOWER GRADUATE FELLOWSHIP (GRAD) provides funding for the pursuit of Master's Degrees or Doctorates in transportation related fields. The program objective is to attract qualified students to the fields of transportation education and research, and advance transportation workforce development. The Program is intended to help upgrade the scope of knowledge of the entire transportation community in the United States and encompasses all modes of transportation.

Applicants applying for the Eisenhower Graduate Fellowships must:

- Possess an earned baccalaureate degree
- Be confirmed graduating seniors
- Be enrolled in an accredited U.S. institution of higher education
- Be pursuing a degree in a full-time program
- Be in a transportation-related discipline
- Conduct ongoing research in one or more transportation-related disciplines
- Be planning to enter the transportation profession after completing their higher-level education.

Website: <http://www.nhi.fhwa.dot.gov/ddetfp.asp>

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Early Career Funding Opportunities

Website: <http://www.apa.org/earlycareer/funding.html>

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East Asia & Pacific Summer Institute for U.S. Graduate Students

Requirements: Graduate Student

Program Description: The East Asia and Pacific Summer Institutes (EAPSI) provide U.S. graduate students in science and engineering 1) first-hand research experience in Australia, China, Japan, Korea, or Taiwan; 2) an introduction to the science and science policy infrastructure of the respective location; and 3) orientation to the society, culture and language. The primary goals of EAPSI are to introduce students to East Asia and Pacific science and engineering in the context of a research laboratory, and to initiate personal relationships that will better enable them to collaborate with foreign counterparts in the future. The institutes last approximately eight weeks from June to August. The National Institutes of Health (NIH) co-sponsor the Summer Institute in Japan.

Eligibility:

\* U.S. citizens or permanent residents;

\* Enrolled at U.S. institutions in 1) graduate programs (M.S. or Ph.D.) in science or engineering or 2) M.D. programs with an interest in biomedical research; and

\* Pursuing studies in fields of science and engineering research and education that are supported by the National Science Foundation (Biological Sciences; Computer and Information Science and Engineering;

Education and Human Resources; Engineering; Geosciences; Mathematical and Physical Sciences; Polar Research; and Social, Behavioral, and Economic Sciences). See [http://www.nsf.gov/funding/browse\\_all\\_funding.jsp](http://www.nsf.gov/funding/browse_all_funding.jsp) for descriptions of these fields. For Japan, fields of study may also include those supported by the National Institutes of Health (<http://www.nih.gov/science>).

\* Pursuing studies in fields of science and engineering research and education that are represented among the potential host institutions at the desired location.

Previous EAPSI participants may only apply to locations in which they have not yet participated.

Website: <http://www.nsf.gov/pubs/2005/nsf05617/nsf05617.htm>

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#### Faculty and Student Teams Program

Requirements: College/University faculty members and undergraduates

Program Description: The Faculty and Student Teams (FaST) Program is a cooperative effort between the Department of Energy (DOE) Office of Science and the National Science Foundation (NSF). Faculty from colleges and universities with limited research facilities and those institutions serving populations, women, and minorities underrepresented in the fields of science, engineering, and technology are encouraged to apply for the FaST program. The FaST program will support a team comprised of one faculty member and 2 – 3 undergraduate students. The program provides hands-on research opportunities in DOE national laboratories during the summer. The faculty member identifies a mutually beneficial research area amenable to collaboration by the faculty member and the laboratory scientist. Potential areas of collaboration are based upon the Project Descriptions described at the specific DOE Office of Science laboratory. Faculty and student team members recruited by the faculty member should apply online. If the application is accepted, your institution may be responsible for requesting supplemental funding from NSF to support the team's participation.

To be eligible for this program:

- \* Faculty applicants must be United States Citizens or Permanent Resident Aliens
- \* Student team members must meet the following eligibility requirements:
  - \* Must be currently enrolled as an undergraduate student and completed at least one semester of college course work
  - \* Must be 18 years or older at the start of the program
  - \* Must have earned a high school diploma or GED
  - \* Must be United States Citizens or Permanent Resident Aliens
  - \* May participate in a maximum of two FaST internships
  - \* Must have coverage under a health insurance plan. It is the responsibility of each participant to secure insurance coverage before arriving at the appointment site.

\* Faculty applicants who are full time faculty members at U.S. community colleges or colleges and universities in the 50th percentile or lower of total federal funding will receive preference. Preference will also be given to those faculty applicants at colleges or universities associated with one of the following NSF programs:

- \* 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)
- \* Gender Diversity in STEM Education (GDSE)
- \* Historically Black Colleges and Universities Undergraduate Program (HBCU-UP)
- \* Louis Stokes Alliances for Minority Participation (LSAMP)
- \* Math and Science Partnership (MSP): Comprehensive and Targeted Projects
- \* NSF Collaboratives for Excellence in Teacher Preparation (CETP)
- \* Program for Persons With Disabilities (PPD)
- \* Science, Technology, Engineering, and Mathematics Teacher Preparation (STEMTP)
- \* Tribal Colleges and Universities Program (TCUP)

Website: <http://www.scied.science.doe.gov/scied/fast/about.html>

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#### Faculty Loan Repayment Program

Requirements: From a disadvantaged background and enrolled in or degree from a graduate program

Program Description: The Faculty Loan Repayment Program (FLRP) is a loan repayment program for individuals from disadvantaged backgrounds who serve as faculty at eligible health professions schools for a minimum of two years. In return, the Federal Government agrees to pay up to \$20,000 of the outstanding principal and interest on the individual's education loans for each year of service. This program is designed to increase the number of faculty from disadvantaged backgrounds who act as role models and mentors for students from similar backgrounds. Hence, faculty, as used in this section, means a position that is primary teaching, rather than administrative or research. The employing school must also make payments of principal and interest to the faculty member in an amount equal to the amount of such quarterly payments made by the HHS Secretary for each year in which the recipient serves as a faculty member under contract with HHS. In addition, the school must pay the usual salary to the faculty member. The Secretary may waive the school's matching requirement if the Secretary determines it will impose an undue financial hardship on the school.

Eligible Applicants: An individual is eligible to apply for loan repayment under FLRP if the individual is from a disadvantaged background and:

- \* Has a degree in allopathic or osteopathic medicine, dentistry, nursing, or in another health profession;
- \* Is enrolled in an approved health professions graduate program; or
- \* Is enrolled as a full-time student in the final year of health professions training that leads to a degree in one of the following health professions: allopathic medicine, osteopathic medicine, podiatric medicine, veterinary medicine, dentistry, pharmacy, optometry, nursing, public health, dental hygiene, medical laboratory technology, occupational therapy, physical therapy, radiologic technology, speech pathology, audiology, medical nutrition therapy and graduate programs in behavioral health and mental health practice, clinical psychology, clinical social work, and marriage and family therapy.

ACCREDITATION: The individual must meet the requirements identified above. The individual must have a 2 year contract to serve as a faculty member at an eligible accredited health professions school.

Website: <http://www.hrsa.gov/grants/preview/guidanceprofessions/flrp.htm>

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#### Federal Perkins Loan Cancellations

The Federal Perkins Loan program provides low-interest loans to needy students to attend higher education institutions. Included under the Perkins Loan Program are cancellation provisions of student loans for certain types of employment or service such as teaching in a low-income area. This program applies to school psychologists in underserved areas. Loans are provided to postsecondary institutions to distribute to needy students who can borrow up to \$4,000 annually with a maximum limit of \$18,000. Graduate students can borrow up to \$6,000 with a limit of \$40,000. According to the latest statistics, approximately 698,000 low-income students received loans in the 1997-98 school year.

Website: [http://studentaid.ed.gov/students/publications/student\\_guide/2005-2006/english/types-perkinsandstaffordloans.htm](http://studentaid.ed.gov/students/publications/student_guide/2005-2006/english/types-perkinsandstaffordloans.htm)

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#### Federal Work Study Program

Requirements: Students who are enrolled as undergraduate, graduate, or professional students and who are in need of earnings from employment to pursue courses of study at eligible institutions.

The program also encourages students receiving federal student financial assistance to participate in community service activities that will benefit the nation and give the students a sense of social responsibility and commitment to community. Institutions may award Federal Work Study opportunities to undergraduate, graduate, or professional students who demonstrate financial need and are enrolled in a certificate or degree program.

Institutions alone decide whether to expand this opportunity beyond undergraduate study. The Department of Education determines the amount each institution receives by evaluating the needs of the institution's undergraduate, graduate, and professional students through a series of formulas, but the institution has the discretion to determine what specific allocation will be provided to its students based on the students' needs. The institution, however, must adhere to its program participation agreement with the Department of Education and make FWS funds "reasonably available, to the extent of available funds, to all eligible students."

\* Program funds may be used to support a student in part-time employment, including internships, practice, or research assistantships at the institution itself, work in community service, or work in the public interest for a federal, state or local public agency or non-profit organization. Students must meet guidelines associated with any Higher Education Act grant, loan, or work-study aid, which include maintaining satisfactory academic progress in their field of study.

\* The federal share of compensation of students in the work-study program shall not exceed 75 percent. However, it may exceed 75 percent, but no more than 90 percent, for certain cases where a student is employed at a nonprofit, private organization, or government agency not affiliated with the institution. Institutions may also fund projects for students at private, for-profit organizations as long as institutions do not use more than 25 percent of their funds per fiscal year for such a program. FY2000 requirements also stipulate that schools must use at least 7 percent of their Work Study funds for community service jobs.

\* Institutions may also use up to 10 percent of its funds or \$50,000 to establish or expand programs to locate and develop jobs, including community service jobs, for currently enrolled students as long as they are jobs that complement and reinforce the educational programs or vocational goals of the students.

\* For more information, please visit: [http://www.ed.gov/prog\\_info/SFA/StudentGuide/1999-0/fws.html](http://www.ed.gov/prog_info/SFA/StudentGuide/1999-0/fws.html)

\* In addition to the Federal Work Study, institutions may use 10 percent of its funds to conduct a program of community service-learning including development of mechanisms to assure the academic quality of the student experience and assure student access to educational resources and services necessary to achieve community service objectives. The funds are available to institutions under a section that provides for administrative expenses in the Student Assistance Program.

\* Additional funds are also available under the Higher Education Act and the Perkins Loan Program to “work colleges” (i.e., public or private nonprofit institutions that require all resident students to participate in a comprehensive work-learning program) for the purpose of carrying out similar activities described in the FWS program. Work colleges may apply for the funds, which are matched on a dollar-for-dollar basis from non-federal sources.

Website: [http://studentaid.ed.gov/students/publications/student\\_guide/2004\\_2005/english/types-fed-workstudy.htm](http://studentaid.ed.gov/students/publications/student_guide/2004_2005/english/types-fed-workstudy.htm)

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## Fellows Award for Research Excellence Program

### Requirements: Postdoctoral fellows

FARE is the acronym for the Fellows Award for Research Excellence, begun in 1995. The twelfth annual NIH-wide FARE competition (FARE 2006) will again provide recognition for the outstanding scientific research performed by intramural postdoctoral fellows. The award is sponsored by the NIH Fellows Committee, the Scientific Directors, the NIH Office of Research on Women's Health, and the NIH Office of Intramural Training and Education, and is funded by the Scientific Directors and the Office of Research on Women's Health. Fellows submit an abstract of their research, which is peer reviewed in a blind study section competition. Winners of FARE awards will each receive a \$1000 stipend to attend a scientific meeting at which they will present their abstract, either as a poster or a seminar. FARE winners are asked to present their work at a dedicated poster session on the day of the FARE awards presentation ceremony. FARE winners serve as judges for the following year's FARE competition (please see the FAQ page for more information).

The FARE 2006 competition is open to:

1. intramural postdoctoral fellows, such as IRTA, Clinical, and Visiting Fellows, who have no more than 5 years total postdoctoral experience in the NIH intramural research program as of May 1, 2005. Visiting Scientists/Fellows must not have been tenured at their home institute.
2. postdoctoral-level Special Volunteers (e.g., those with NRC, NRSA, or Jane Coffin Childs fellowships).
3. pre-IRTAs currently enrolled in a Ph.D. program and conducting their doctoral dissertation research at an NIH lab.

Website: [http://felcom.nih.gov/fare/fare\\_faq.html](http://felcom.nih.gov/fare/fare_faq.html)

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#### Funding Opportunities for Students: APA Resources for All Student Levels

Website: <http://www.apa.org/students/funding.html>

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## G

### General Research Loan Repayment Program

Requirements: Doctorate

Program Description: In June 1993, P. L. 103-43 authorized Section 487C (42 USC 288-3), which established a program of educational loan repayment to attract highly qualified health professionals, particularly physicians, to conduct research at the NIH. The mission of the General Research Loan Repayment Program (General LRP) is to attract talented researchers to public service as employees of the NIH using loan repayment as an economic incentive to embark on biomedical research careers, using loan repayment as an incentive. Generally, those at a tenure track or above level are given priority for funding of LRP awards.

To be eligible for consideration, individuals must be (1) citizens, nationals, or permanent residents of the United States; (2) hold a Ph.D., M.D., D.O., D.D.S., D.M.D., Pharm.D., or equivalent doctoral level degree {NOTE: Applicants with a doctorate of veterinary medicine (D.V.M.) are eligible for all intramural LRPs except the Clinical Research LRP for Individual from Disadvantaged Background unless they also hold one of the degrees listed above. Applicants with A.D.N./B.S.N. degrees are only eligible to apply to the AIDS Research LRP}; (3) must be employed by or have a firm commitment of employment from an authorized official of the NIH; and (4) have qualifying educational debt in excess of 20 percent of their annual NIH base salary on the expected date of program eligibility. The expected date of program eligibility is the date by which (a) an applicant begins a qualified research assignment (see below) as an NIH employee and (b) the Secretary executes his or her LRP contract. The applicant must have a formal appointment in the NIH intramural research program (click here for additional information on research eligibility determination).

Website: <http://www.lrp.nih.gov/about/intramural/index.htm>

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**Graduate Assistance in Areas of National Need (GAANN)**

Requirements: Graduate students with excellent records who demonstrate financial need and plan to pursue the highest degree available in a field designated as an area of national need, which include biology, chemistry, computer and information science, engineering, geological science, mathematics, and physics.

Who May Apply (by category): Institutions of Higher Education, Other Organizations and/or Agencies

Who may apply (specifically): Academic departments and programs of institutions of higher education that provide courses of study leading to a graduate degree. Non-degree granting institutions may submit joint proposals with degree-granting institutions of higher education.

Website: <http://www.ed.gov/programs/gaann/index.html>

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**Graduate Education Postdoctoral Education and Training (APA)**

Website: <http://www.apa.org/ed/graduate/postdoced.html>

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**Graduate Program Partnerships**

Requirements: Bachelors

The Graduate Partnerships Program (GPP) links the National Institutes of Health (NIH) with universities in the graduate level training of students. Through university partnerships the NIH strengthens and expands its role as a provider of excellent training for the biomedical scientists of the future. The mission of the GPP is to establish and foster graduate education partnerships with national and international universities and institutions dedicated to quality education in biomedical basic and clinical research while providing the infrastructure and community support needed by the students in these programs.

Eligibility: Students who are U.S. citizens or U.S. permanent residents with an undergraduate degree wishing to pursue a Ph.D. in the biomedical sciences can apply to one or more of the NIH-University partnership programs, listed below. The available programs are separated into two groups, depending on the location of the university: National University Partnerships and International University Partnerships.

Website: <http://gpp.nih.gov/Applicants>

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**Graduate Psychology Education (GPE) Program**

Legislative Authority: Health Professions Education Partnerships Act of 1998, P.L. 105-392, Amended Part D, Sec.755 of the Public Health Service Act, Allied Health and Other Disciplines to authorize projects to

plan, develop and operate or maintain graduate programs in behavioral and mental health practice as defined in Sec.799B.

Purpose: Provides grants for psychology (including geropsychology) training with underserved populations through an interdisciplinary approach.

Eligibility: APA accredited doctoral, postdoctoral and internship programs.

Estimated project period: Grants are for three-year cycles.

Website: <http://www.apa.org/ppo/gpe>

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### Graduate Research Fellowship Program

Requirements: Enrolled in or currently enrolling in a masters or doctorate program

Program Description: The National Science Foundation aims to ensure the vitality of the human resource base of science, technology, engineering, and mathematics in the United States and to reinforce its diversity by offering approximately 1,000 graduate fellowships in this competition. The Graduate Research Fellowship provides three years of support for graduate study leading to research-based master's or doctoral degrees and is intended for students who are at the early stages of their graduate study. The Graduate Research Fellowship Program (GRFP) invests in graduate education for a cadre of diverse individuals who demonstrate their potential to successfully complete graduate degree programs in disciplines relevant to the mission of the National Science Foundation.

Eligibility: Applicants must be United States citizens or nationals, or permanent resident aliens of the United States.

Degree Requirements: Fellowships are intended for individuals in the early stages of their graduate study. Applicants must have completed no more than twelve months of full-time graduate study at the time of their application. Below are general guidelines for determining eligibility according to the degree requirements criterion.

\* Part-time students: Nine (9) semester hours of part-time study are equal to a full-time semester, and six (6) semester hours of part-time study are equal to a summer session.

\* Applicants are expected to have adequate preparation to begin graduate study and research by summer or fall 2006. In most cases, this will be demonstrated by receipt of a bachelor's degree earned prior to Fall 2006.

\* Individuals are typically eligible to apply during the senior year of college or prior to or during the first year of graduate school.

\* Applicants in joint BS/MS programs are typically eligible to apply prior to the completion of any further graduate study.

\* In four-year joint programs, applicants may apply in the fourth year and after the completion of the program. Completion of any further graduate study outside the joint program will disqualify an applicant.

\* In five-year joint programs, applicants may apply in the fourth and fifth years of the program and after the completion of the program. Completion of any further graduate study outside the joint program will disqualify an applicant.

\* Applicants may be considered eligible based on extenuating circumstances, such as a significant change of field, interruption in study to gain work experience, or career interruption due to family or medical reasons. The interruption must be for a period of more than two years prior to November 2005.

\* Categories of applicants that are always ineligible:

\* Those who earned a Ph.D. in science, mathematics, or engineering or any medical degree, such as an M.D., D.D.S. or D.V.M. after October 1, 1999.

\* Those who have already received and held tenure as an NSF Graduate Research Fellow.

Field of Study: Fellowships are awarded for graduate study leading to research-based master's or doctoral degrees in the fields of science, technology, engineering, and mathematics supported by the National Science Foundation (See NSF-Supported Fields of Study). The NSF welcomes applications for interdisciplinary programs of study and research. However, applicants are instructed to indicate the primary field of study for the proposed graduate program in the Fastlane Application Module so that the application can be assigned to the most appropriate review panel. The primary field of study also should be used to determine the appropriate application submission deadline. For example, applications with engineering as the primary field of study are due November 8, 2005. The guidelines below should be used to assess eligibility according to the field of study criterion.

\* Research in bioengineering with diagnosis or treatment-related goals may be eligible for support if it applies engineering principles to problems in biology and medicine while advancing engineering knowledge. Bioengineering research to aid persons with disabilities may also be eligible. Applications emphasizing bio should be submitted under life sciences on November 2, 2005 while those emphasizing engineering should be submitted under engineering on November 8, 2005.

\* Basic research may be eligible, notwithstanding long-term implications to the medical sciences.

\* Research in a policy science is eligible only if applicants are pursuing research oriented master's or Ph.D. degrees.

\* Categories of study that are always ineligible:

\* Clinical, counseling, business, or management fields, social work, education (except in science education Ph.D.), or history (except in history of science).

\* Practice-oriented professional degree programs, joint science-professional degree programs (MD/PhD and JD/PhD), and medical, dental, law, or public health programs.

\* Medical sciences or research with disease-related goals, including work on the etiology, diagnosis or treatment of physical or mental disease, abnormality or malfunction in human beings or animals, animal models of such conditions, or the development or testing of drugs or other procedures for their treatment .

Website: <http://www.nsf.gov/pubs/2005/nsf05601/nsf05601.htm>

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Graduate Study in Psychology Publication. Provides an idea of how the publication is represented on-line through the APA website by collecting financial aid information from over 600 departments of psychology. The publication is about \$25, and the on-line database about \$20 for 3-months access.

Website: <http://www.apa.org/gradstudy/sample.html>

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## Graduate Teaching Fellow in K-12 Education

### Requirements: Graduate Students

**Program Description:** This program supports fellowships and associated training that enable 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. In addition, the GK-12 program provides institutions of higher education with an opportunity to make a permanent change in their graduate programs by including partnerships with K-12 schools in a manner that is of mutual benefit to their faculties and 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.

Principal Investigators (PIs), school administrators, GK-12 Teachers and STEM faculty must work together in the development of the GK-12 proposal. It is strongly recommended that a partnership among all potential parties involved in the proposed project be developed early. For example, PIs and school administrators are encouraged to discuss such issues as the types of incentives and resources necessary to support participation of teachers in GK-12 projects and the projects that will best serve the needs of the participating schools and teachers.

Although training activities on the campus of an institution of higher education may be part of the project plan, it is expected that the preponderance of Fellows' activities with teachers and students will occur in K-12 schools. PIs are encouraged to establish collaborative arrangements with other institutions (e.g. industry, non-profit organizations, and museums) to support their activities.

**Eligibility:** Academic institutions in the United States and its territories that grant masters or doctoral degrees in STEM disciplines supported by NSF are eligible to apply. Projects may involve more than one institution, but a single institution must accept overall management responsibility. In any one competition, an institution may submit only one proposal as lead from either a single-institution or from a multi-institutional proposal, and this includes Track 1 or Track 2.

Non-academic institutions, industry, non-profit organizations and museums may serve as collaborating organizations.

**Principal Investigator:** The PI must be a faculty member at the lead institution in a STEM discipline supported by NSF and should serve as the director of the GK-12 project. Any appropriate faculty or administrator at universities, K-12 schools or partnership institutions may serve as Co-PI.

GK-12 Fellows will be selected by awardee institutions. They must be full time graduate students enrolled in STEM programs during their tenure as Fellows. In addition, they must be citizens, nationals or permanent residents of the United States. Foreign students who hold student visas are not eligible.

GK-12 Teachers should have sufficient experience in pedagogy to help improve the communication and teaching skills of the GK-12 Fellows.

Website: <http://www.nsf.gov/pubs/2005/nsf05553/nsf05553.htm>

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### Health Disparities Research Loan Repayment Program

Requirements: Doctoral degree

Program Description: The Health Disparities LRP is a vital component of our nation's efforts to attract health professionals to careers in health disparities research. In exchange for a two-year commitment to your research career, NIH will repay up to \$35,000 per year of your qualified repayable educational debt, pay an additional 39% of the repayments to cover your Federal taxes, and may reimburse state taxes that may result from these payments.

The scope of research qualified for this program includes basic research, clinical research or behavioral research directly related to health disparity populations and the medically underserved. A group is defined as a health disparity population "if there is a significant disparity in the overall rate of disease incidence, prevalence, morbidity, mortality, or survival rates in the population as compared to the health status of the general population." [Public Law 106-525]

To participate, you must be a U.S. citizen (or U.S. national or permanent resident) and have a M.D., Ph.D., Pharm. D., D.O., D.D.S., D.M.D., D.P.M., Psy.D., D.C., D.V.M., N.D., or equivalent doctoral degree from an accredited institution. You must conduct health disparities research 50% of your time (at least 20 hours weekly based on a 40 hour week) for two years and it must be funded by a domestic nonprofit or U.S. Government (Federal, state or local) entity. Also, the research must not be prohibited by Federal law or NIH policy.

Website: <http://www.lrp.nih.gov/about/lrp-healthdisp.htm>

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### Historically Black Colleges and Universities Undergraduate Programs

Requirements: Historically Black Colleges and Universities

Program Description: This program provides awards to build the science, technology, engineering, and mathematics (STEM) education and research capacity at Historically Black Colleges and Universities (HBCUs) as a means to broaden participation in the Nation's STEM workforce. Support is available for Implementation Projects, Planning Grants, Education Research Projects, and Targeted Infusion Projects.

Eligibility: Organization Limit: Historically Black Colleges and Universities that are accredited and that currently offer associate or baccalaureate degrees in the sciences, technology, engineering, and mathematics (STEM) fields.

PI Eligibility Limit: The Principal Investigator for HBCU-UP Implementation Projects and Planning Grant proposals should be the chief academic officer of the institution or other senior academic official. Potential Co-Principal Investigators include the key personnel that will be involved in the implementation of the project activities.

The Principal Investigator for Targeted Infusion Projects should be a STEM departmental head. Potential Co-Principal Investigators include the key personnel that will be involved in the implementation of the project activities.

The Principal Investigator for Education Research Projects should be the individual who will perform the research project. Potential Co-Principal Investigators include all collaborators on the research project.

Limit on Number of Proposals: Eligible institutions can submit either an Implementation Project proposal or a Planning Grant proposal in any year. Please note that an eligible institution can only have one active Implementation Project or Planning Grant. Eligible institutions can submit one Targeted Infusion Project proposal in each biannual competition. This is in addition to either an Implementation Project or Planning Grant proposal if applicable. There is no limit to the number of Education Research Project proposals that can be submitted from an eligible institution.

Website: <http://www.nsf.gov/pubs/2006/nsf06508/nsf06508.htm>

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#### Indian Health Professions Scholarship

Requirements: American Indian and Alaska Native and Clinical Psychology: Ph.D. Level only

Program Description: The Health Professions Scholarship Program provides financial assistance for American Indian and Alaska Native (Federally recognized only) students only enrolled in health professions and allied health professions programs. For this program, there are service obligations and payback requirements that the recipient incurs upon acceptance of the scholarship funding. Priority is given to Graduate Students, and Junior and Senior Level Students, unless otherwise specified.

Applicants for a Health Professions scholarship support must submit a signed Indian Health Scholarship Program Contract (form IHS-818) as part of the application, agreeing to accept payment of scholarship funds if they are selected for the award and to enter into a service obligation with the IHS to provide health services upon completion of their health education program in the full-time professional practice of their health profession.

Applicants must:

1. be an American Indian or Alaska Native (Federally recognized only and applicant must be a member of his/her tribe);
2. be a high school graduate or equivalent; and
3. be enrolled or accepted for enrollment in a full or part-time study program leading to a degree in a health related professions school within the United States for one of the health career priority categories listed above.
4. Documentation must be received from part-time applicants that their school and course curriculum allows less than full-time status.

Website: <http://www.ihs.gov/JobsCareerDevelop/DHPS/SP/sp104.asp>

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**Indian Health Service (IHS) Loan Repayment Program**

The goal of the LRP is to recruit and retain highly qualified health professionals. All health professions are eligible to apply to the Loan Repayment Program. However, physicians and nurses have historically received the highest priority for selection into the program.

**Eligibility**

Be a U.S. citizen;

Committed to practice at an IHS or other Indian health program priority site, demonstrated by enclosing a signed contract to serve at such a site;

Are free to begin service on or before September 30 in a full-time, clinical practice for two continuous years in an approved IHS or other Indian health program priority site; and

Meet the definition given in Section 4(n) of the Indian Health Care Improvement Act (IHCA), Public Law (P.L.) 94-437, as amended, that:

\* Health Profession means family medicine, internal medicine, pediatrics, geriatric medicine, obstetrics and gynecology, podiatric medicine, nursing, public health nursing, dentistry, psychiatry, osteopathy, optometry, pharmacy, psychology, public health, social work, marriage and family therapy, chiropractic medicine, environmental health, and engineering and allied health professions.

\* Have a degree in medicine, osteopathy, dentistry, or a health profession consistent with Section 4(n); and have completed an approved graduate training program in medicine, osteopathy, dentistry, or other health profession in a state, and have a license to practice medicine, osteopathy, dentistry, or, if applicable, other health profession in a state, except that the Secretary may waive the requirement of graduate training for good cause shown.

Website: <http://www.ihs.gov/JobCareerDevelop/DHPS/index.asp>

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**Instructional Materials Development**

Requirements: Doctorate

The Instructional Materials Development (IMD) program includes four components:

\* Learning Progressions -- supports the creation of instructional frameworks centered on learning progressions in science and technology education and the development of associated teacher resources and models for professional development.

\* Instructional Materials for Students -- supports the creation and substantial revision of comprehensive curricula and supplemental instructional materials that are research-based; enhance classroom instruction, preK-12; and reflect standards for science, mathematics, and technology education developed by national professional organizations.

\* Assessment -- supports the creation of tools for assessing student learning that are tied to nationally developed standards and reflect the most current thinking on how students learn mathematics and science. Projects can also focus on developing resources that provide technical assistance to schools and districts in implementing new assessments.

\* Applied Research -- supports the research for development of the IMD program and projects; provides evidence for the effectiveness of materials and feedback for strengthening the portfolio; and identifies possible new directions in instructional materials and assessment.

Proposals may be submitted for projects in any field of science, technology, engineering, or mathematics (STEM) education typically supported by NSF.

Eligibility: Organization Limit: None Specified. PI Eligibility Limit: An individual may serve as the Principal Investigator (PI) for no more than one proposal per round of competition; any exceptions must obtain prior approval, in writing, from the IMD Section Head. Limit on Number of Proposals: None Specified.

Website: <http://www.nsf.gov/pubs/2005/nsf05612/nsf05612.htm>

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#### Integrative Graduate Education and Research Traineeship Program

Requirements: Bachelors

Program Description: The Integrative Graduate Education and Research Traineeship (IGERT) program seeks to train PhD scientists and engineers with the interdisciplinary background and the technical, professional and personal skills needed to address the global questions of the future. Through the use of innovative curricula and internships, and by focusing on problem-centered training, these programs give their graduates the edge needed to become leaders in their chosen fields. To learn more about IGERT PhD programs located at universities across the country, and to find a program that's right for you, click here.

The mission of the IGERT National Recruitment Program is to help students find the IGERT program that is right for them, and help IGERT faculty and PIs find the students that are right for their programs. As part of this mission, we seek to increase the participation of underrepresented groups, including women and minorities, in doctorate programs in the engineering, science and mathematics fields, by helping Minority Serving Institutions (MSIs) and their constituencies tap into a bountiful resource opportunity.

Eligibility:

\* Wants to be a scientist for the future-- more flexible, more collaborative, more adept at linking issues in the life, earth, and social sciences, and more able to solve the global issues that face us today.

\* Has demonstrated strong interest and motivation in the areas of science, technology, engineering and mathematics.

\* Has completed a bachelor's degree in a relevant discipline.

\* Is a U.S. citizen or permanent resident.

Website: <http://www.igert.org>

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#### Interagency Education Research Initiative

Requirements: none specified

The Interagency Education Research Initiative (IERI) is a collaborative effort jointly sponsored by the National Science Foundation, the Institute of Education Sciences in the U.S. Department of Education (see <http://www.ed.gov/programs/edresearch/applicant.html>), and the National Institute of Child Health and Human Development in the National Institutes of Health (see <http://www.nichd.nih.gov/funding/funding-oppo.htm>). In FY 2004 the IERI grant competition will be managed separately by each agency. The National Science Foundation invites proposals for research projects that will investigate the effectiveness of interventions designed to improve student learning and achievement in pre K-12 science and/or pre K-12 mathematics with an emphasis on middle and high school. Technology should be a part of the intervention or used in an essential manner in the analysis of the intervention.

The goal of IERI-supported jointly by the Institute of Education Sciences, the National Science Foundation (represented by REC), and the National Institute of Child Health and Human Development-is to support scientific research that investigates the effectiveness of educational interventions in reading, mathematics, and the sciences as they are implemented in varied school settings with diverse student populations.

Organization Limit: None Specified.

PI Eligibility Limit: None Specified.

Limit on Number of Proposals: None Specified.

Website: <http://www.nsf.gov/pubs/2004/nsf04553/nsf04553.htm>

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#### Introduction to Cancer Research Careers

Requirements: Undergraduate, Post-Baccalaureate (within two years), or Graduate Student

Program Description: The National Cancer Institute (NCI), the largest component of the National Institutes of Health (NIH), is the nation's premier biomedical research facility and a world leader in cancer research. NCI recognizes the importance of identifying, training, and mentoring talented researchers from populations underrepresented in science and individuals from disadvantaged backgrounds.

Toward this end, the NCI has designed the Introduction to Cancer Research Careers (ICRC) Program. The ICRC Program sponsors highly-qualified students on an all expense paid, two-day visit to the NCI located in Bethesda, Maryland. ICRC participants will have the opportunity to tour the facilities of the NCI and the NIH, listen to and network with research fellows, and potentially interview for an internship with NCI Investigators. This program provides participants with the opportunity to experience the NCI first-hand and personally interact with the world's leading cancer researchers.

Successful candidates for the ICRC Program will have a strong academic record, demonstrated research experience, and a commitment to a career in biomedical, behavioral, or population science research.

Eligibility:

- \* Undergraduate, Post-Baccalaureate (within two years), or Graduate Student of an accredited U.S. college or university
- \* GPA of 3.2 or higher and good academic standing
- \* Demonstrated research experience
- \* Available in 2006 for a full-time summer OR post-baccalaureate internship
- \* United States citizen or permanent resident (green card), or a I-551 stamp in your passport
- \* Must be at least 18 years of age or older by February 15, 2006
- \* Member of an underrepresented population OR financially disadvantaged background

Website: <http://icrc.nci.nih.gov>

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J

Jacob K. Javits Fellowships Program

The program provides financial assistance to students who have demonstrated:

- \* Superior academic ability and achievement;
- \* Exceptional promise; and
- \* Financial need to undertake graduate study leading to a doctoral degree or a master's degree in which the master's degree is the terminal highest degree in the selected field of study.

The Department of Education awards fellowships in selected fields of study of the arts, humanities and social sciences. Panels of experts appointed by the Javits Fellowship Board (Board) select fellows according to criteria established by the Board. Students must demonstrate financial need by filing the Free Application for Federal Student Aid. The selected fields of study supported by the Javits Fellowship Program are available for your review.

Subject to the availability of funds, a fellow receives the Javits fellowship annually for up to the lesser of 48 months or the completion of their degree. The fellowship consists of an institutional payment (accepted by the institution of higher education in lieu of all tuition and fees for the fellow) and a stipend (based on the fellow's financial need as determined by the measurements of the Federal Student Assistance Processing System. In fiscal year 2005, the institutional payment was \$11,822 and the maximum stipend was \$30,000.

Website: <http://www.ed.gov/programs/jacobjavits/index.html>

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Loan Repayment for Contraception and Infertility Researchers

Requirements: Doctorate

The Contraception and Infertility Research LRP is a vital component of our nation's efforts to attract health professionals to careers in contraception and infertility research.

In exchange for a two-year commitment to your research career, NIH will repay up to \$35,000 per year of your qualified repayable educational debt, pay an additional 39% of the repayments to cover your Federal taxes, and may reimburse state taxes that may result from these payments. Infertility research is defined as research whose long-range objective is to evaluate, treat or ameliorate conditions which result in the failure of couples to either conceive or bear young. Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy.

To be eligible you must also be a U.S. citizen (or U.S. national or permanent resident) and a physician, Ph.D.-level scientist, veterinarian, nurse, physician's assistant, graduate student, or postgraduate research fellow training in the health professions. You must commit to conduct contraception and infertility research for 50% of your time (at least 20 hours weekly based on a 40 hour week) for two years and it must be funded by a domestic nonprofit or U.S. Government (Federal, state or local) entity. Also, the research must not be prohibited by Federal law or NIH policy.

Website: <http://www.lrp.nih.gov/about/lrp-contra.htm>

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Louis Stokes Alliances for Minority Participation

Requirements: Doctorate

Program Description: The Directorate for Education and Human Resources through the Division of Human Resource Development (HRD) announces the Louis Stokes Alliances for Minority Participation (LSAMP) Cohort III supplemental activity, "Bridge to the Doctorate (BD)," beginning in FY 2005. The goal of these supplements is to fund the initial two years of graduate study at Phase III LSAMP Alliance institutions. This activity will broaden participation through the attraction of underrepresented minority students in science, technology, engineering and mathematics (STEM) disciplines. Additionally, this activity seeks to remove minority students' hesitancy about entering graduate school, and the fear of creating additional financial indebtedness associated with initial graduate education.

Approximately 24,000 baccalaureate degree recipients are produced annually at LSAMP institutions. In order to ensure the matriculation of a larger number of these well trained and educated underrepresented minority students to graduate school, two-year supplemental funding on a competitive basis will be available to Phase III LSAMP Alliances.

Eligibility: Each Phase III LSAMP Alliance may designate one graduate institutional site in their Alliance for this activity. The Alliance's lead institution must submit the proposal. All STEM disciplines qualify for

support. However, sites are encouraged to support STEM disciplines that are sparsely represented nationally by minority groups. Examples of such fields include: chemistry, physics, mathematics, geosciences, environmental, atmospheric and polar research fields, etc. Applications focused on a single STEM field will be returned without review.

Website: <http://www.nsf.gov//pubs/2005/nsf05585/nsf05585.jsp>

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M

### Minority Fellowship Program (APA)

#### Basic Eligibility

\* Applicants must be U.S. citizens or permanent resident aliens with an alien registration card (I-151 or I-551). Individuals on temporary or student visas are not eligible.

\* Applicants must demonstrate a strong commitment to a career in ethnic minority mental health and substance abuse services. This commitment must be demonstrated in the application essays, graduate school curriculum or training plan, practicum and internship training experiences, and thesis and dissertation topics developed.

\* Applicants should be enrolled full-time in an APA-accredited doctoral program. Students not currently enrolled in an APA-accredited doctoral program may apply as long as they gain acceptance into an APA-accredited doctoral program for the fall term immediately following the application deadline.

\* African American, Alaskan Native, American Indian, Asian American, Hispanic/Latino, Native Hawaiian, and Pacific Islander students are especially encouraged to apply.

Website: <http://www.apa.org/mfp>

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### Minority Postdoctoral Research Fellowships and Supporting Activities

Requirements: Doctoral degree

Program Description: The Directorate for Biological Sciences (BIO) and the Directorate for Social, Behavioral, and Economic Sciences (SBE) offer Minority Postdoctoral Research Fellowships and related supporting activities in an effort to increase the participation of underrepresented groups in selected areas of science in the U.S. These fellowships support training and research at the postdoctoral level in a host institution in the areas of biology and social, behavioral, and economic sciences supported by NSF. Supporting activities are travel grants to graduate students to visit prospective sponsors, starter research grants for Fellows, and an annual meeting of Fellows and their mentors

Organization Limit: NSF postdoctoral fellowships and graduate student travel awards are awards to individuals, and applications are submitted directly by the applicant to the NSF. Fellows must affiliate with institutions (e.g., colleges and universities, government and national laboratories and facilities, and

privately-sponsored nonprofit institutes and museums, and, under special conditions, for-profit organizations). Organizations may apply for research starter grants.

**PI Eligibility Limit:** Applicants must be U.S. citizens, nationals, or legally admitted permanent resident aliens of the United States; have earned the doctoral degree in an appropriate scientific field no more than four years before the deadline date of the application or plan to earn this degree no more than one year after the deadline date; have completed no more than two years of postdoctoral support prior to the deadline for this fellowship application; and propose a research and training plan that falls within the program areas of BIO or SBE and explains how the fellowship award will broaden the participation of underrepresented minorities at the postdoctoral level in the US. The Fellowships are designed to permit Fellows to choose the research and training environment most beneficial to their scientific development. This requires a change from the doctoral institution or a justification if this change is not proposed.

**Limit on Number of Proposals:** Applicants may submit only one fellowship application per year. There is no limit on the number of applicants that an institution may host. Travel awards and starter research grants are one-time awards.

**Website:** [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13454&org=NSF&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13454&org=NSF&from=fund)

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#### Minority Science and Engineering Improvement Program

**Requirements:** Predominantly minority institutions

**Program Description:** The program provides grants to effect long-range improvement in science education at predominantly minority institutions and to increase the flow of underrepresented ethnic minorities, particularly minority women, into science and engineering careers.

Eligible applicants include public and private, nonprofit accredited institutions of higher education (IHEs) with minority enrollments that exceed 50 percent of the total enrollment; professional scientific societies; nonprofit science-oriented organizations; and nonprofit 4-year accredited colleges and universities that provide needed services to a group of eligible minority institutions or that provide special training for project directors, scientists, and engineers from eligible minority institutions. Additionally, eligible applicants include 2-year public or private non-profit IHEs that award associate degrees and are minority institutions that have curricula that include science and engineering subjects and enter into a partnership with a 4-year minority IHE. A minority institution is defined in the regulations at 34 CFR 637.4(b). This program does not support scholarships for students.

**Website:** <http://www.ed.gov/programs/idadesmsi/index.html>

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#### National Health Service Corps—Loan Repayment Program

**Requirements:** Fully trained health professionals, including psychologists, who are dedicated to working with the underserved and have qualifying educational loans are eligible to compete for repayment of those

loans, if they choose to serve in a community of greatest need. In addition to loan repayment, these clinicians receive a competitive salary and a chance to have a significant impact on a community.

To be eligible for the Loan Repayment Program (LRP), you must be a fully trained:

- \* Allopathic or osteopathic physician specializing in family medicine, general pediatrics, general internal medicine, general psychiatry, or obstetrics/gynecology;
- \* Primary care nurse practitioner;
- \* Primary care physician assistant;
- \* Certified nurse-midwife;
- \* Dentist;
- \* Dental hygienist; or
- \* Mental or behavioral health professional (health service psychologist, clinical social worker, licensed professional counselor, marriage and family therapist, or psychiatric nurse specialist).

Other eligibility requirements include:

- \* Be free of judgment liens arising from federal debt;
- \* Have no other existing service commitment;
- \* Serve full time (40 hours a week) in the clinical practice of your profession;
- \* Commit to providing primary care service in a priority health professional shortage area for a minimum of 2 years; and
- \* Be a U.S. citizen with a valid, unrestricted license and/or certificate for the state where you plan to practice.

Maximum repayment during the required initial two-year contract is \$25,000 per year. You may be eligible to continue your loan repayment beyond two years, one year at a time, to the extent you have unpaid qualifying educational loans and continue to serve at an eligible site. One-year amendments are awarded for a maximum of \$35,000 per year.

Website: [http://nhsc.bhpr.hrsa.gov/join\\_us/lrp.asp](http://nhsc.bhpr.hrsa.gov/join_us/lrp.asp)

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#### National Institutes of Health Academy

Requirements: Bachelors

Program Description: The NIH Academy is a postbaccalaureate program that provides opportunities for recent college graduates to spend a year engaged in biomedical investigation at the National Institutes of Health (NIH) in Bethesda, Maryland. The mission of the Academy is to enhance research dedicated to the elimination of domestic health disparities through the development of a diverse cadre of biomedical researchers. Health disparities are differences in the incidence, prevalence, mortality, and burden of disease and other adverse health conditions that exist among specific population groups in the United States.

To be eligible for consideration, candidates must be U.S. citizens or permanent residents and have graduated from an accredited U.S. college or university. You must also be a recent college graduate (meaning that the Academy start date, at the end of August, is less than a year after your graduation from college with your first Bachelor's degree).

Website: <http://www.training.nih.gov/student/Pre-IRTA/irtamanualpostbacAcademy.asp>

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## National Institutes of Health Loan Repayment Program

NIH Loan Repayment Programs are a vital component of our nation's efforts to attract health professionals to careers in clinical, pediatric, health disparity, or contraceptive and infertility research. In exchange for a two or three-year (for Intramural General Research) commitment to your research career, NIH will repay up to \$35,000 per year of your qualified educational debt. In addition, the NIH will make corresponding federal tax payments for credit to your Internal Revenue Service tax account at the rate of 39% of each loan repayment to cover your increased federal taxes. The NIH may also reimburse any increased state or local taxes and/or additional increased federal taxes (where the federal tax payments were not sufficient to fully cover your increased federal taxes) that you incur as a result of your LRP benefits.

### Eligibility

- \* Doctoral-level degree;
- \* Government research funding (federal, state or local ) or domestic nonprofit research funding;
- \* Student loan debt equal to at least 20% of annual salary;
- \* U.S. citizenship or permanent residency; and
- \* Non-federal government job.

Website: <http://www.lrp.nih.gov/about/extramural/index.htm>

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## NIH Pathway to Independence (PI) Award

This initiative will develop and implement a new Pathway to Independence Award Program (PI) designed to facilitate receiving an R01 award earlier in an investigator's research career. The primary, long-term goal of the PI Award Program is to increase and maintain a strong cohort of new and talented, NIH-supported independent investigators.

The Pathway to Independence Award will provide up to five years of support consisting of two phases. The initial phase will provide 1-2 years of mentored support for highly promising, postdoctoral research scientists. This phase will be followed by up to 3 years of independent support contingent on securing an independent research position. Award recipients will be expected to compete successfully for independent R01 support from the NIH during the career transition award period. The PI Award is limited to postdoctoral trainees who propose research relevant to the mission of one or more of the participating NIH Institutes and Centers.

### Eligibility

- \*Postdoctoral research scientists

Website: <http://grants1.nih.gov/grants/guide/pa-files/PA-06-133.html>

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National Postdoctoral Association. The NPA has information related to funding and grant opportunities for postdocs.

Website: [http://www.nationalpostdoc.org/committees/outreach\\_committee/PDAtoc](http://www.nationalpostdoc.org/committees/outreach_committee/PDAtoc)

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## National Research Service Award Institutional Research Training Grants

Requirements: Institutions with graduate and postgraduate research training

Program Description: The National Institutes of Health (NIH) will award National Research Service Award (NRSA) Institutional Training Grants (T32) to eligible institutions to develop or enhance research training opportunities for individuals, selected by the institution, who are training for careers in specified areas of biomedical, behavioral, and clinical research. The purpose of the NRSA program is to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation's biomedical and behavioral research agenda. Accordingly, the NRSA program supports predoctoral, postdoctoral, and short-term research training experiences.

The NIH institutes and centers may have special policies and requirements for their Institutional Research Training Grants (T32). Therefore, in the early stages of application preparation, applicants should contact the prospective NIH awarding component listed at the end of this announcement to discuss their specific policies.

### ELIGIBLE INSTITUTIONS

Only domestic, non-profit, private or public institutions may apply for grants to support research training programs. The applicant institution must have a strong research program in the area(s) proposed for research training and must have the requisite staff and facilities to carry out the proposed program.

### ELIGIBLE TRAINING PROGRAM DIRECTORS

Any individual with the skills, knowledge, and resources necessary to organize and implement a high quality research training program is invited to work with their institution as the director of the research training program in order to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH programs. The research training program director at the institution will be responsible for the selection and appointment of trainees to the NRSA research training grant and for the overall direction, management, and administration of the program.

### TRAINEE ELIGIBILITY REQUIREMENTS

Trainees appointed to the training program must have the opportunity to carry out supervised biomedical or behavioral research with the primary objective of developing or extending their research skills and knowledge in preparation for a research career.

A trainee must be a citizen or non-citizen national of the United States or must have been lawfully admitted for permanent residence (i.e., in possession of a currently valid Alien Registration Receipt Card I-551, or some other legal verification of such status). Non-citizen nationals are generally persons born in outlying possessions of the United States (e.g., American Samoa and Swains Island). Individuals on temporary or student visas are not eligible.

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-02-109.html>

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Native Hawaiian Scholarship Program

Purpose: Program provides federal financial support for Native Hawaiians who are students of health professions that are needed to serve Native Hawaiian people in the State of Hawaii. Scholarship is awarded in return for agreement to serve Native Hawaiians for a minimum of two years.

Eligibility: Must be a Native Hawaiian enrolled full-time in an eligible school in a health profession needed to serve Native Hawaiians. In addition, applicants must be free of conflicting service obligations and free of federal judgment liens.

Estimated project period: Scholarship awards are from one to four years; service obligation is two to four years.

Website: <http://www.hrsa.gov/grants/preview/individuals.htm>

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

This program supports fellowships and associated training that enable 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. In addition, the GK-12 program provides institutions of higher education with an opportunity to make a permanent change in their graduate programs by including partnerships with K-12 schools in a manner that is of mutual benefit to their faculties and 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.

Website: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5472&org=NSF](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5472&org=NSF)

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#### O

Office of Graduate and Postgraduate Education and Training: Advances the quality and public understanding of graduate and postdoctoral education and training in preparation for careers in teaching, research, and applications of psychology as a scientific discipline and profession.

Website: <http://www.apa.org/ed/graduate/homepage.html>

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Pan-American Advanced Studies Institutes

Requirements: Advanced graduate and post-doctoral students

Approximately 6 to 8 awards will be made yearly to U.S. research institutions or professional societies for the purpose of organizing a PASI. The Principal Investigator (PI) shall be the designated contact person for the Institute and is expected to provide leadership in fully coordinating and integrating its activities. The PI is responsible for (a) the preparation of the scientific and/or engineering program, (b) the selection of lecturers and students, (c) the administration of the meeting, and (d) the publication of lectures and proceedings from the meeting.

Institutes in the physical, mathematical, or biological science disciplines and/or engineering may be supported with some exceptions. Institutes in the biological sciences should place a special emphasis on using modern tools in genomics and bioinformatics to explore themes in biology. Proposals for Institutes that focus on the etiology, diagnosis or treatment of physical or mental disease, abnormality, or malfunction in human beings or animals, will not be reviewed. Institutes developed around animal models of such conditions or the development or testing of drugs or other procedures for their treatment also are not eligible for support. Institutes in bioengineering, with diagnosis or treatment-related goals, however, that relate engineering principles to problems in biology and medicine while advancing engineering knowledge are eligible for support. Institutes that focus on research advances that could aid persons with disabilities also are eligible.

The PI should be assisted by a small Organizing Committee composed normally of three to four lecturers from at least two other countries of the Americas and, if appropriate, from different research sectors. A local scientist or engineer from the host country should be a member of the Organizing Committee. Brief professional background summaries and descriptions of the role to be played by each member of the Organizing Committee should be provided. The rationale for the choice of topics and location should be clearly spelled out. Proposals that are of an applied nature, and especially where relevance to industry is claimed, should include a noted industrial scientist or engineer on the Organizing Committee.

The Institute will be aimed at the post-doctoral level, but may include advanced graduate students, and relevant senior scientists and engineers. PASIs should involve 8 to 12 lecturers and 30 to 50 students from the different countries in the Americas with at least half from the United States. In order to preserve balance, PASI students from any single Western Hemisphere country other than the United States should not exceed 25% of the total number. PASI students from non-Western Hemisphere countries may be accepted under special circumstances but in no case should their number exceed 15% of the total number. Non-Western Hemisphere students may not receive financial support from the PASI grant.

Website: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5327&org=NSF&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5327&org=NSF&from=fund)

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Pediatric Research Loan Repayment Program

Requirements: Doctoral-level pediatric researchers

Program Description: The Pediatric Research Loan Repayment Program is designed to attract health professionals to pediatric research. Pediatric Research is directly related to diseases, disorders, and other conditions in children. Qualified health professionals who contractually agree to conduct qualified pediatric research for 50 percent of time, or not less than 20 hours per week based on a 40 hour week, for a two-year consecutive period are eligible to apply for this program. Participants in this program can receive educational loan repayment up to \$35,000 annually, depending on total educational loan debt (click here to estimate how much can be repaid depending on debt). In addition, payments equal to 39 percent of total loan repayments are credited to the Internal Revenue Service on behalf of program participants to offset

Federal tax liabilities incurred. The Pediatric Research Loan Repayment Program is authorized by the Children's Health Act of 2000 (Public Law 106-310), which introduced Section 487F of the Public Health Service Act (42 USC 288-6).

Program eligibility: doctoral-level pediatric researchers with a domestic nonprofit or U.S government (Federal, state or local) funding. To participate, you must be a U.S. citizen (or U.S. national or permanent resident) and have a M.D., Ph.D., Psy.D., Pharm. D., D.O., D.D.S., D.M.D., D.P.M., D.C., N.D., D.V.M., or equivalent doctoral degree from an accredited institution. You must conduct pediatric research for 50% of your time (at least 20 hours weekly based on a 40 hour week) for two years and it must be funded by a domestic nonprofit or U.S. Government (Federal, state, or local) entity. Also, the research must not be prohibited by federal law or NIH policy.

Website: <http://www.lrp.nih.gov/about/lrp-pediatric.htm>

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#### Post-baccalaureate Intramural Research Training Award Programs

Requirements: Bachelors

Program Description: The Postbaccalaureate Intramural Research Training Award (IRTA) program and the National Cancer Institute's Cancer Research Training Award (CRTA) provide opportunities for recent college graduates to spend a year engaged in biomedical research at the National Institutes of Health (NIH). Trainees work side-by-side with some of the leading scientists in the world in an environment devoted exclusively to biomedical research. Fellowships are available in the more than 1250 intramural laboratories of the National Institutes of Health (NIH), which are located on the main NIH campus in Bethesda, MD as well as in Baltimore and Frederick, MD; Research Triangle Park, NC; Phoenix, AZ; Hamilton, MT; and Detroit, MI.

To be eligible to apply for this program, candidates must be U.S. citizens or permanent residents, must have graduated from an accredited U.S. college or university with a bachelor's degree, and must begin training within two years of receipt of the undergraduate degree. In addition, during their tenure in the program Postbaccalaureate IRTAs are expected to initiate the application process for graduate or medical school. (The program is also open to individuals who have been accepted into graduate or medical degree programs and who have written permission from the school to defer matriculation for up to one year.) The duration of the program is normally one year; it can be extended for one additional year depending on satisfactory trainee performance and continued availability of funds.

Website: <http://www.training.nih.gov/student/Pre-IRTA/irtamanualpostbac.asp>

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#### Post-doctoral Fellowships in Polar Regions Research

Requirements: Postdoctoral

The Office of Polar Programs (OPP) offers Postdoctoral Fellowships in Polar Regions Research to highly qualified individuals in U.S. host organizations to support training and research on any aspect of scientific study of the Antarctic and/or the Arctic. The fellowship program develops and trains new investigators in polar regions research with concomitant goals to:

\* Support innovative research in emerging areas;

- \* Encourage interdisciplinary research;
- \* Foster activities that create broader impacts for science and society; and
- \* Increase the participation of underrepresented groups in polar regions research.

Fellowships promote human resource development in conjunction with advancing scientific knowledge and understanding and attracting new technologies and expertise to polar regions research. In collaboration with sponsoring scientists, fellowship candidates are encouraged to propose research and training plans that outline opportunities relevant to their career goals, such as developing novel conceptual approaches, enhancing technical skills, gaining field or teaching experience, participating in education and outreach activities, or forming industry partnerships. It is not expected that each fellowship candidate will propose a research and training plan that meets all of the fellowship program goals; rather, candidates should identify activities that contribute their knowledge and skills to the scientific study of polar regions, that foster their research interests and talents, that promote the development of skills and competencies appropriate to their career goals, and that address the merit review criteria identified in this solicitation.

An individual is eligible to apply for a Postdoctoral Fellowship in Polar Regions Research and an (optional) associated travel grant if all of the following criteria are met:

- \* The candidate is a U.S. citizen, national, or permanent resident alien in the United States.
- \* The candidate has earned the doctoral degree in an appropriate scientific field or will complete a doctoral degree no more than 1 year after the proposal deadline date.
- \* The candidate has not participated in postdoctoral training for a combined full-time-equivalent duration of more than three years or provides a statement that justifies further postdoctoral training.
- \* The candidate proposes a sponsoring U.S. organization that differs from the doctoral-granting institution or provides a statement that justifies continuing at his or her doctoral-granting institution.
- \* The candidate proposes a research and training plan that falls within the program areas supported by OPP (described in Antarctic Research and Arctic Research Opportunities).
- \* The candidate has not previously held a Federal research grant, with the exception of graduate fellowships and other sources of individual student support.
- \* The candidate submits a research plan that has not been submitted in another proposal to any Federal agency.

Website: <http://www.nsf.gov/pubs/2004/nsf04566/nsf04566.htm>

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#### Post-doctoral Intramural Research Training Award

Requirements: Postdoctoral

Program Description: The Postdoctoral Intramural Research Training Award (IRTA) is available to promising researchers who are interested in pursuing full-time, semi-independent research in National Human Genome Research Institute (NHGRI) laboratories. Post-doctoral fellows in this program select laboratories that are compatible with their academic interests and career plans.

An important aspect of the postdoctoral training experience at NHGRI is the intensive mentoring that the fellow receives from an NHGRI investigator, including career counseling. Trainees also receive extensive support from the NHGRI Intramural Training Office, which serves as a focal point for training and career development and whose goal is to improve the overall training experience at NHGRI. All fellows are encouraged to participate in post-doctoral seminar series, activities offered through the NHGRI Fellows Committee, and other NHGRI- and National Institutes of Health (NIH)- sponsored career development programs.

IRTAs are initially awarded for one to two years. These awards may be extended to a maximum of five years, depending on the annual review of the trainee's research accomplishments and the availability of institutional resources.

To be eligible: Postdoctoral candidates must be United States citizens or permanent residents with a doctoral degree and less than five years of relevant post-doctoral experience. Postdoctoral candidates from non-United States countries are welcome to apply for a Postdoctoral Visiting Fellowship. Candidates must be interested in pursuing full-time, semi-independent research in National Human Genome Research Institute (NHGRI) laboratories.

Website: <http://www.genome.gov/14514637>

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#### Post-doctoral Visiting Fellow Program

Requirements: Non-U.S. citizen and postdoctorate

Program Description: Postdoctoral Visiting Fellowships provide the opportunity for recent doctoral degree recipients to enhance their research skills in the resource-rich National Institutes of Health (NIH) environment, which consists of more than 1200 laboratories located on the main campus in Bethesda, MD as well as in Baltimore and Frederick, MD, Research Triangle Park, NC, Phoenix, AZ, and Hamilton, MT devoted exclusively to biomedical research. Trainees pursue both basic and clinical research free from the demands of obtaining grants and teaching, although opportunities to do both are available.

Awards are granted for an initial 12-month period and may be renewed for up to five years, based on satisfactory performance and the continued availability of funds.

To be eligible to apply for this program, candidates must hold a doctoral degree and have no more than five years of relevant research experience since receipt of their most recent doctoral degree. Citizens of all non-U.S. countries are welcome to apply.

Website: <http://www.training.nih.gov/postdoctoral/vf.asp>

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#### Precollege and Undergraduate Office (APA) funding opportunities

Website: <http://www.apa.org/ed/pcue/funawardschol.html>

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## Pre-doctoral Fellowship for Minority Students

Requirements: Minority student and doctoral students.

Program Description: The National Research Service Award Predoctoral Fellowship for Minority Students will provide up to five years of support for research training leading to the Ph.D. or equivalent research degree; the combined M.D./Ph.D. degree; or other combined professional degree and research doctoral degree in the biomedical, behavioral sciences, or health services research. These fellowships are designed to enhance the racial and ethnic diversity of the biomedical, behavioral, and health services research labor force in the United States. Accordingly, academic institutions are encouraged to identify and recruit students from underrepresented racial and ethnic groups who can apply for this fellowship. Support is NOT available for individuals enrolled in medical or other professional schools UNLESS they are also enrolled in a combined professional doctorate/Ph.D. degree program in biomedical, behavioral, or health services research.

### ELIGIBILITY REQUIREMENTS

**Citizenship.** By the time of award, individuals must be citizens or noncitizen nationals of the United States, or have been lawfully admitted to the United States for permanent residence (i.e., possess a currently valid Alien Registration Receipt Card I-551, or other legal verification of such status). Noncitizen nationals are generally persons born in outlying possessions of the United States (e.g., American Samoa and Swains Island). Individuals on temporary or student visas are not eligible.

**Underrepresentation.** The applicant must be from ethnic/racial groups that have been determined by the applicant's graduate institution to be underrepresented in biomedical or behavioral research. The NIH particularly encourages institutions to identify individuals from racial and ethnic groups that have been shown to be underrepresented in health-related research nationally. These groups include African Americans, Hispanics, Native Americans, Alaskan Natives, and Pacific Islanders.

**Degree Requirements.** An applicant must currently be enrolled in a Ph.D. or equivalent research degree program, a combined M.D./Ph.D. program, or other combined professional doctorate/research Ph.D. graduate program in the biomedical or behavioral sciences, or have been accepted by and agreed to enroll in such a graduate program in the academic year for which funds are sought.

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-00-069.html>

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## Pre-doctoral Students with Disabilities

Requirements: Person with disabilities and doctoral student

Program Description: This program announcement from the National Institutes of Health is for National Research Service Award (NRSA) Individual Predoctoral Fellowships for Students with Disabilities. It is a trans-NIH announcement that applies to all NIH funding components listed under INQUIRIES at the end of this announcement.

The NRSA Predoctoral Fellowship for Students with Disabilities will provide up to five years of support for research training leading to the Ph.D. (or equivalent research degree), or the combined M.D./Ph.D. degree (or other combined professional research doctoral degrees) in the biomedical or behavioral sciences. The intent of this Predoctoral Fellowship Program is to encourage students with disabilities to seek graduate degrees and thus further the goal of increasing the number of scientists with disabilities who are prepared to pursue careers in biomedical and behavioral research.

## ELIGIBILITY REQUIREMENTS

**Citizenship.** By the time of award, individuals must be citizens or noncitizen nationals of the United States, or have been lawfully admitted to the United States for permanent residence (i.e., possess a currently valid Alien Registration Receipt Card I-551, or other legal verification of such status). Noncitizen nationals are persons born in outlying possessions of the United States (e.g., American Samoa and Swains Island). Individuals on temporary or student visas are not eligible.

**Definition of Disability.** For the purpose of this announcement, the definition of persons with disabilities from the Americans with Disabilities Act will be used. An individual with a disability is one who has a physical or mental impairment that substantially limits one or more major life activities, a record of such an impairment, or who is regarded as having such an impairment." Qualified students with disabilities are those who, with reasonable accommodation for their disability, are capable of pursuing a research career after appropriate education, training, and experience. A list of disabilities that might confer eligibility for awards under this program includes, but is not limited to, the following: total deafness in both ears, visual acuity less than 20/200 with corrective lenses, speech impairment, missing extremities, partial paralysis, complete paralysis, convulsive disorders, mental or emotional illness, learning disabilities, kidney dialysis, and severe distortion of limbs and/or spine. In all cases, individuals supported under this program must, with reasonable assistance, be able to complete the requirements for the degree program in which they are enrolled.

**Degree Requirements.** An applicant must currently be enrolled in a Ph.D. or equivalent research degree program, a combined M.D./Ph.D. program, or other combined professional doctorate/research Ph.D. graduate program in the biomedical, behavioral, or clinical sciences. Or, the applicant must have been accepted by and agreed to enroll in such a graduate program in the academic year for which funds are sought.

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-00-068.html>

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### Pre-service Teacher Program

**Requirements:** Undergraduate or graduate students.

**Program Description:** Students wishing to become K-12 teachers who are either majoring in any branch of science, math, engineering or technology or are education majors are encouraged to apply. Students in a post-graduate program preparing for a teaching certificate are also eligible.

This program places students in paid internships in Science, Math, and Technology at any of several different locations (see Choosing a Lab). The participants in the program have decided on a teaching career in one of these disciplines. Students work with scientists or engineers on projects related to the laboratories' research programs. They also have the mentorship of a Master Teacher who is currently working in K-12 education as a teacher and is familiar with the research environment of a specific National Laboratory. The different laboratories each offer different research opportunities (see Choosing a Lab).

To be eligible, applicants:

1. Must be currently enrolled as a student in an undergraduate or graduate program at an accredited college or university.
2. Must intend to become a K-12 teacher in science, mathematics, or technology.
3. Must be 18 years or older at the start of the program.

4. Must be a United States Citizen or Permanent Resident Alien.
5. Must have earned a high school diploma or GED.
6. Can participate in a maximum one PST internship.
7. Must have coverage under a health insurance plan. It is the responsibility of each participant to secure insurance coverage before arriving at the appointment site.
8. Must have completed at least one year of college, including a minimum of two math classes above college algebra OR at least two laboratory science classes.

Website: <http://www.scied.science.doe.gov/scied/PST/about.htm>

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Research Experience for Undergraduates

Requirements: Undergraduate

Program Description: NSF funds a large number of research opportunities for undergraduate students through its REU Sites program. An REU Site consists of a group of ten or so undergraduates who work in the research programs of the host institution. Each student is associated with a specific research project, where he/she works closely with the faculty and other researchers. Students are granted stipends and, in many cases, assistance with housing and travel. Undergraduate students supported with NSF funds must be citizens or permanent residents of the United States or its possessions. An REU Site may be at either a US or foreign location.

Individual sites may have specific eligibility requirements (e.g., number of undergraduate years completed) for applicants in addition to those described here. Undergraduate student participants supported with NSF funds must be citizens or permanent residents of the United States or its possessions. High school graduates who have not yet enrolled and students who have already received their bachelor's degrees generally are not eligible.

Website: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5517&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund)

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Research in Disabilities Education

Requirements: Doctorate

Program Description: The Research in Disabilities Education (RDE) program supports efforts to increase the participation and achievement of persons with disabilities in science, technology, engineering, and mathematics (STEM) education and careers. Meritorious projects from a diversity of institutions are supported via the RDE Demonstration, Enrichment, and Information Dissemination (RDE-DEI) program track. Promising research efforts are also developed further via awards under the Focused-Research Initiatives (RDE-FRI) program track. In the third program track, broadly applicable methods and products are disseminated for widespread use, commercialization, or inclusion in the activities of program-sponsored Regional Alliances for persons with disabilities in STEM education (RDE-RAD). RDE Alliances serve to inform the public, government, and industry about proven-good practices in the classroom, promote broader awareness of disabilities issues, and define specific areas of accessibility and human learning in need of further attention by educators and the research community.

Organization Limit: There is no organization limit on proposals submitted under the RDE-DEI and RDE-FRI program tracks. The categories of proposers identified in the Grant Proposal Guide (GPG) are eligible to submit proposals under both of those program tracks.

A proposal submitted under the RDE-RAD program track must be submitted by a U.S. college or university in the United States.

Joint or linked proposals are not permitted and may be returned without review. Cooperative or collaborative efforts should instead be presented as subcontracted components on a single proposal that is submitted by the lead organization.

Colleges and universities already participating as a lead or partner institution within a current RAD award are not eligible to be a lead institution on a new RAD proposal until their current project funding has ended.

Proposals from minority-serving institutions, including Historically Black Colleges and Universities (HBCUs), Hispanic-Serving Institutions, and Tribal Colleges and Universities are especially encouraged.

PI Eligibility Limit: Each PI may be included on only 1 proposal to this year's RDE competition, regardless of program track and including possible Co-PI designations on competing proposals.

An individual who is a PI on one RDE proposal may not be included as a PI or a Co-PI on any competing proposal. An individual who is a Co-PI on one RDE proposal may not be included as a PI or a Co-PI on any competing proposal.

Note: RDE funds institutional sponsors to conduct basic and applied research in STEM fields as related to disabilities. The program does not offer individual stipends, scholarships, or living expenses in direct support of individuals with disabilities. However, in some circumstances, individuals may qualify to apply for sub-grants from RDE projects as identified in the proposal and sanctioned by the PI and his or her institutional sponsor. For further details on Facilitation Awards for Scientists and Engineers with Disabilities (FASSED), consult the guidelines presented in NSF 02-115, as applicable to all NSF programs.

Limit on Number of Proposals: Only one RDE proposal may be submitted by a RAD lead institution or by a DEI, FRI or RAD principal investigator or co-principal investigator to each year's competition. An institution or organization may be included in only one RDE proposal, either as a lead institution or as a partner organization, but not both.

Website: <http://www.nsf.gov/pubs/2005/nsf05623/nsf05623.htm#elig>

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## Research on Gender in Science and Engineering

Requirements: Doctorate

The program seeks to broaden the participation of girls and women in all fields of science, technology, engineering, and mathematics (STEM) education by supporting research, dissemination of research, and extension services in education that will lead to a larger and more diverse domestic science and engineering workforce. Typical projects will contribute to the knowledge base addressing gender-related differences in learning and in the educational experiences that affect student interest, performance, and choice of careers; and how pedagogical approaches and teaching styles, curriculum, student services, and institutional culture contribute to causing or closing gender gaps that persist in certain fields. Projects will disseminate and apply findings, evaluation results, and proven good practices and products.

The Research on Gender in Science and Engineering program has been funding these objectives since 1993, under the prior names "Program for Women and Girls" (PWG), "Program for Gender Equity in Science, Mathematics, Engineering and Technology" (PGE), and "Gender Diversity in STEM Education" (GDSE).

Scientists, engineers and educators usually initiate proposals that are officially submitted by their employing organization. Before formal submission, the proposal may be discussed with appropriate NSF program staff. Graduate students are not encouraged to submit research proposals, but should arrange to serve as research assistants to faculty members. Some NSF divisions accept proposals for Doctoral Dissertation Research Grants when submitted by a faculty member on behalf of the graduate student. The Foundation also provides support specifically for women and minority scientists and engineers, scientists and engineers with disabilities, and faculty at predominantly undergraduate academic institutions.

Website: <http://www.nsf.gov/pubs/2005/nsf05614/nsf05614.htm>

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## Research on Learning and Education

Requirements: Doctorate

Program Description: The ROLE program seeks to capitalize on important developments across a wide range of fields related to human learning and to STEM education. It supports research across a continuum that includes (1) the biological basis of human learning; (2) behavioral, cognitive, affective and social aspects of STEM learning; (3) STEM learning in formal and informal educational settings; (4) STEM Policy research; and (5) The diffusion of STEM innovations. The ROLE Program aims to advance the knowledge base within and across the intersections of these multidisciplinary areas. It encourages projects that reconcile and integrate basic research and educational practice, and generate hypotheses from one disciplinary area that can be tested and refined in another.

### ELIGIBILITY

- \* Limitation on the categories of organizations that are eligible to submit proposals: None
- \* PI eligibility limitations: None
- \* Limitation on the number of proposals that may be submitted by an organization: None

Website: <http://www.nsf.gov/pubs/2005/nsf05529/nsf05529.htm>

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Research Supplements to Promote Diversity in Health-Related Research

Requirements: Principal Investigators at domestic institutions who hold an active R01, R10, R18, R22, R24, R35, R37, R43, R44, R41, R42, P01, P20, P30, P40, P41, P50, P51, P60, U01, U10, U19, U41, U42, U54, or S06 grant

Program Descriptions: The NIH hereby notifies Principal Investigators holding specific types of NIH research grants (listed in the full announcement) that funds are available for administrative supplements to improve the diversity of the research workforce by supporting and recruiting students, postdoctorates, and eligible investigators from groups that have been shown to be underrepresented. Although the administrative supplements supported under this program provide funding for less than one percent of all individuals involved in NIH supported research, the NIH has found these awards to be an effective means of encouraging institutions to recruit from currently underrepresented groups. Administrative supplements must support work within the scope of the original project.

All NIH awarding components participate in this program. Candidates eligible for support under this supplement program include individuals at various career levels who come from groups that have been shown to be underrepresented in science. Such candidates include individuals from underrepresented racial and ethnic groups, individuals with disabilities, and individuals from disadvantaged backgrounds. Detailed eligibility criteria are described in the full announcement.

The NIH recognizes a unique and compelling need to promote diversity in the biomedical, behavioral, clinical and social sciences research workforce. The NIH expects efforts to diversify the workforce to lead to the recruitment of the most talented researchers from all groups; to improve the quality of the educational and training environment; to balance and broaden the perspective in setting research priorities; to improve the ability to recruit subjects from diverse backgrounds into clinical research protocols; and to improve the Nation's capacity to address and eliminate health disparities.

Eligible Institutions: Current NIH grant holders (as described above) may submit (an) application at any time.

Eligible Individuals: For the purpose of this announcement, institutions are encouraged to identify candidates who will increase diversity on a national or institutional basis. The strength of an institution's description and justification for the appointment of an identified candidate will be judged along with all other aspects of the proposed experience (see review criteria in Section V.1.). As discussed, the NIH is particularly interested in encouraging the recruitment and retention of the following classes of candidates:

A. Individuals from racial and ethnic groups that have been shown by the National Science Foundation to be underrepresented in health-related sciences on a national basis (see <http://www.nsf.gov/sbe/srs/women/start.htm> ). In addition, it is recognized that underrepresentation can vary from setting to setting and individuals from racial or ethnic groups that can be convincingly demonstrated to be underrepresented by the grantee institution are eligible for support under this program.

B. Individuals with disabilities, which are defined as those with a physical or mental impairment that substantially limits one or more major life activities.

C. Individuals from disadvantaged backgrounds which are defined as:

1. Individuals who come from a family with an annual income below established low-income thresholds. These thresholds are based on family size; published by the U.S. Bureau of the Census; adjusted annually for changes in the Consumer Price Index; and adjusted by the Secretary for use in all health professions programs. The Secretary periodically publishes these income levels at

<http://aspe.hhs.gov/poverty/index.shtml>. For individuals from low income backgrounds, the institution must be able to demonstrate that such candidates have qualified for Federal disadvantaged assistance or they have received any of the following student loans: Health Professions Student Loans (HPSL), Loans for Disadvantaged Student Program, or they have received scholarships from the U.S. Department of Health and Human Services under the Scholarship for Individuals with Exceptional Financial Need.

2. Come from a social, cultural, or educational environment such as that found in certain rural or inner-city environments that have demonstrably and recently directly inhibited the individual from obtaining the knowledge, skills, and abilities necessary to develop and participate in a research career. Eligibility related to a disadvantaged background is most applicable to high school and perhaps to undergraduate candidates, but would be more difficult to justify for individuals beyond that level of academic achievement.

Awards under this program are limited to citizens or non-citizen nationals of the United States or to individuals who have been lawfully admitted for permanent residence in the United States (i.e., in possession of an Alien Registration Receipt Card or some other legal evidence of admission for permanent residence at the time of application).

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-05-015.html#PartII>

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#### Robert Noyce Scholarship Program

Requirements: Institutions of higher education

Program Description: The Robert Noyce Scholarship program seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 mathematics and science teachers. The program provides funds to institutions of higher education to support scholarships, stipends, and programs for students who commit to teaching in high need K-12 schools.

Eligibility: Institutions of higher education (as defined in section 101(a) of the Higher Education Act of 1965) in the United States or consortia of such institutions or nonprofit entities that have established consortia among such institutions of higher education may submit proposals. An institution may submit no more than one proposal per competition.

Website: <http://www.nsf.gov/pubs/2005/nsf05528/nsf05528.htm#elig>

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#### Ruth L. Kirschstein National Research Service Award for Individual Postdoctoral Fellows

Requirements: Postdoctoral fellow

Program Description: The Congress of the United States enacted the National Research Service

Act (NRSA) Program in 1974 to help ensure that a diverse pool of highly trained scientists will be available in adequate numbers and in appropriate research areas to carry out the Nation's biomedical and behavioral research agenda. In 2002, the National Research Service Award Program was renamed the Ruth L. Kirschstein National Research Service Award Program as a tribute to Dr. Kirschstein's years of exceptional service to the Nation. Additional details related to this legislative change are available at: <http://grants.nih.gov/training/news.htm>.

Under this congressional authority, the National Institutes of Health (NIH) awards individual postdoctoral fellowships (F32) to promising applicants with the potential to become productive, independent investigators in fields related to the mission of the NIH constituent institutes and centers.

**ELIGIBILITY REQUIREMENTS:**

**Citizenship.** By the time of award, candidates for the postdoctoral fellowship award must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted to the United States for Permanent Residence (i.e., possess a currently valid Alien Registration Receipt Card I-551, or other legal verification of such status). Non-citizen nationals are generally persons born in outlying possessions of the United States (i.e., American Samoa and Swains Island). Individuals on temporary or student visas are not eligible. Individuals may apply for the F32 in advance of admission to the United States as a Permanent Resident recognizing that no award will be made until legal verification of Permanent Resident status is provided.

**Degree Requirements.** Before a Kirschstein-NRSA postdoctoral fellowship award can be activated, the individual must have received a Ph.D., M.D., D.O., D.C., D.D.S., D.V.M., O.D., D.P.M., Sc.D., Eng.D., Dr. P.H., D.N.S., N.D., Pharm.D., D.S.W., Psy.D., or equivalent doctoral degree from an accredited domestic or foreign institution. Certification by an authorized official of the degree-granting institution that all degree requirements have been met is also acceptable.

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-03-067.html>

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**Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral MD/PhD Fellows**

**Requirements:** Enrolled in a MD/PhD program

The National Institute on Aging (NIA), the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Institute on Deafness and Other Communication Disorders (NIDCD), the National Institute on Drug Abuse (NIDA), the National Institute of Environmental Health Sciences (NIEHS), the National Institute of Mental Health (NIMH), the National Institute of Neurological Disorders and Stroke (NINDS), and the Office of Dietary Supplements (ODS) provide Ruth L. Kirschstein National Research Service Awards (Kirschstein-NRSA) to individuals for combined MD/PhD fellowship training. The participating Institutes award this Kirschstein-NRSA individual fellowship (F30) to promising applicants with the potential to become productive, independent, highly trained physician-scientists, including patient-oriented physician-scientists (see <http://www.nih.gov/news/crp/97report>; <http://books.nap.edu/catalog/10823.html>) in their scientific mission areas. This funding opportunity supports individual predoctoral F30 fellowships with the expectation that these training opportunities will increase the number of future investigators in basic, translational and clinical research who are physician scientists.

**Eligible Institutions:**

You may submit (an) application(s) if your organization has any of the following characteristics: For-profit organizations, Non-profit organizations, Public or private institutions, such as universities, colleges, hospitals, and laboratories, Eligible agencies of the Federal government, and Domestic Institutions. Foreign Institutions are not eligible to apply.

The sponsoring institution must have staff and facilities available on site to provide a suitable environment for performing high-quality research training. The PhD phase of the program may be conducted outside the sponsoring institution, e.g. a Federal laboratory including the NIH intramural laboratories. This training, however, must be part of a combined MD/Ph.D program.

#### Eligible Individuals:

Any individual with the skills, knowledge, and resources necessary to carry out the proposed research training is invited to work with their sponsor and institution to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH programs. Although a Kirschstein-NRSA award is not usually made for study leading to the MD, DO, DDS, or similar professional degrees, or for study that is part of residency training leading to a medical specialty, the F30 program is specifically designed to support training in an accredited, combined MD/PhD program. Fellowship awardees are required to pursue their research training on a full-time basis, devoting at least 40 hours per week to the training program.

**Citizenship.** By the time of award, candidates for the Kirschstein-NRSA MD/PhD fellowship award must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted to the United States for Permanent Residence (i.e., possess a currently valid Alien Registration Receipt Card I-551, or other legal verification of such status).

**Degree Requirements.** An applicant must have a baccalaureate degree and show evidence of both high academic performance in the sciences and substantial interest in research in areas of high priority to the participating Institutes. When the application is submitted, the applicant must be enrolled in an accredited MD/PhD program at a medical school, accepted in a related scientific PhD program, and supervised by a mentor in that scientific discipline.

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-05-151.html>

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#### Ruth L. Kirschstein National Research Service Award Short-Term Institutional Research Training Grants

**Requirements:** Any individual with the skills, knowledge, and resources necessary to carry out the proposed research training

**Program Description:** The National Institutes of Health (NIH) will award Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grants (T35) to eligible institutions to develop or enhance research training opportunities for individuals interested in careers in biomedical and behavioral research. Many of the NIH Institutes and Centers use this grant mechanism exclusively to support intensive, short-term research training experiences for students in health professional schools during the summer. In addition, the Short-Term Institutional Research Training Grant may be used to support other types of predoctoral and postdoctoral training in focused, often emerging, scientific areas relevant to the mission of the funding NIH institute or center.

The proposed training must be in either basic, behavioral, or clinical research aspects of the health-related sciences. This program is intended to encourage students to pursue research careers by exposure to and short-term involvement in the health-related sciences. The training should be of sufficient depth to enable the trainees, upon completion of the program, to have a thorough exposure to the principles underlying the conduct of research.

#### Eligible Institutions

Only domestic, non-profit, private or public institutions may apply for grants to support National Research Service Award (NRSA) short-term research training programs. The applicant institution must have a high quality research program in the area(s) proposed for the research training and must have the staff and facilities to conduct the proposed research training. The research training program director at the applicant institution must be responsible for the selection and appointment of trainees to receive NRSA support and for the overall direction of the training program.

## Eligible Individuals

Any individual with the skills, knowledge, and resources necessary to carry out the proposed research training is invited to work with their institution to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH programs.

The Program Director should be a basic, behavioral, and/or clinical researcher with skills, knowledge, a successful past training record, and available resources to conduct the proposed short-term research training program. Such an individual is invited to work with his/her institution to develop an application for support.

Website: <http://grants.nih.gov/grants/guide/pa-files/PA-05-117.html>

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## Sallie Rosen Kaplan Fellowship for Women in Cancer Research

Requirements: Postdoctorate

The Sallie Rosen Kaplan Fellowship is an opportunity offered by the National Cancer Institute and the Foundation for the NIH to provide postdoctoral training support for women in basic, clinical, population, and prevention sciences. Kaplan Fellows at the National Cancer Institute will work with internationally-known scientists at the National Institutes of Health campuses in Maryland. The fellowship provides stipend and health insurance for two to five years.

Women with doctoral degrees and less than five years of postdoctoral research experience are eligible to apply. Applicants must be U.S. citizens or permanent residents.

Website: <http://fellowship.nci.nih.gov>

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## Scholars and Fellows Program

Requirements: Undergraduate and Graduate Students

The U.S. Department of Homeland Security (DHS) realizes that the country's strong science and technology community provides a critical advantage in the development and implementation of counter-terrorist measures and other DHS objectives. The DHS Scholarship and Fellowship Program is intended for students interested in pursuing the basic science and technology innovations that can be applied to the DHS mission. This education program is intended to ensure a diverse and highly talented science and technology community to achieve the DHS mission and objectives. Areas of study that are eligible include: physical, mathematical, computer and information, life, and social sciences, psychology, selected humanities, and engineering.

#### Eligibility-Undergraduate

- \* You must be a U.S. citizen as of the application deadline.
- \* If you have been attending college full-time, you must be in your second year of college attendance as of the application deadline. If you have attended college on a part-time basis since completing high school, you must have completed a total of at least 45 but no more than 60 semester hours (60 to 75 quarter hours) as of the application deadline.
- \* You must be majoring in the physical, mathematical, computer and information, life, or social sciences, psychology, selected humanities, or engineering. See Fields of Study List.
- \* You must have a cumulative undergraduate GPA of 3.3 or higher on a 4.0 scale, averaged over all institutions attended, including Fall 2004 grades if enrolled during that term.
- \* You cannot simultaneously be a DHS Scholar and participate in a co-op program.
- \* If you have earned a bachelor's degree as of the application deadline, you are ineligible.
- \* If you have an outstanding active military service commitment as of Fall 2005, you are ineligible.
- \* If you plan to study abroad during Fall 2005, you are ineligible.

#### Eligibility-Graduate

- \* You must be a U.S. citizen as of the application deadline.
- \* If you are at least a college senior as of the application deadline, and you will graduate prior to Fall 2005, you are eligible.
- \* If you have previously earned a bachelor's degree but are not currently enrolled, and you have completed no more than two graduate courses since completion of a bachelor's degree, you are eligible.
- \* If you are enrolled in the first year of a PhD program as of the application deadline, and prior to Fall 2004 you had completed no more than two graduate courses since completion of a bachelor's degree, you are eligible.
- \* If you are enrolled in the first year of a master's program as of the application deadline, you are not eligible to apply unless you will begin a PhD program in Fall 2005.
- \* You must be pursuing a doctoral or master's degree with a thesis requirement in the physical, mathematical, computer and information, life, or social sciences, psychology, selected humanities, or engineering. See Fields of Study List.
- \* You must have a cumulative undergraduate GPA from the institution granting your bachelor's degree of 3.3 or higher on a 4.0 scale, including Fall 2004 grades if enrolled during that term.
- \* If you are currently enrolled in graduate school, you must have a cumulative graduate GPA of 3.3 or higher on a 4.0 scale, including Fall 2004 grades.
- \* If you are in a joint DVM/PhD program you may apply during your second year of veterinary school for funding to begin during your third year of a five-year program with your third year being your PhD work.
- \* If you have earned a master's or doctoral degree as of the application deadline, you are ineligible.
- \* If you are pursuing an MBA, MD or JD degree, you are ineligible.

\* If you have an outstanding active military service commitment as of Fall 2005, you are ineligible.

Website: <http://www.orau.gov/dhsed>

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#### Scholarships for Disadvantaged Students Program

Requirements: From a disadvantaged background and graduate student

Program Description: The Scholarships for Disadvantaged Students program provides scholarships to full-time, financially needy students from disadvantaged backgrounds, enrolled in health professions and nursing programs. Participating schools are responsible for selecting scholarship recipients, making reasonable determinations of need, and providing scholarships that do not exceed the cost of attendance (tuition, reasonable educational expenses and reasonable living expenses).

You are eligible to apply for this scholarship at a school that participates in the Scholarships for Disadvantaged Students program if you are

\* From a disadvantaged background as defined by the U.S. Department of Health and Human Services:

An individual from a disadvantaged background is defined as one who comes from an environment that has inhibited the individual from obtaining the knowledge, skill, and abilities required to enroll in and graduate from a health professions school, or from a program providing education or training in an allied health profession; or comes from a family with an annual income below a level based on low income thresholds according to family size published by the U.S. Bureau of Census, adjusted annually for changes in the Consumer Price Index, and adjusted by the Secretary, HHS, for use in health professions and nursing programs.

\* A citizen, national, or a lawful permanent resident of the United States or the District of Columbia, the Commonwealths of Puerto Rico or the Marianas Islands, the Virgin Islands, Guam, the American Samoa, the Trust Territory of the Pacific Islands, the Republic of Palau, the Republic of the Marshall Islands and the Federated State of Micronesia.

Website: <http://bhpr.hrsa.gov/dsa/sds.htm>

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#### Scholarships, Grants and Awards for Psychologists and Students

Website: <http://www.apa.org/psychologists/scholarships.html>

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Scholarships, Grants, and Funding Opportunities The latest list of funding opportunities for graduate and undergraduate students. Includes funding opportunities from the Department of Education, Department of Health and Human Services, and many foundations

Website: <http://www.apa.org/ed/funding.html>

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Science Careers.org: From GrantsNet, a one-stop resource to find funds for training in the sciences and undergraduate science education. Through the support of HHMI and AAAS, this service is completely free.

Website: <http://sciencecareers.sciencemag.org/funding?CFID=100396&CFTOKEN=19188893>

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#### Science Education Drug Abuse Partnership Award

Requirements: Interest in enhancing knowledge and understanding of neuroscience and the biology of drug abuse and addiction

Program Description: The purpose of the SEDAPA Program is to fund the development and evaluation of innovative model programs and materials for enhancing knowledge and understanding of neuroscience and the biology of drug abuse and addiction among K-12 students, the general public, health care practitioners, and other groups. The award provides support for the formation of partnerships between scientists and educators, media experts, community leaders, and other interested organizations for the development and evaluation of programs and materials that will enhance knowledge and understanding of science related to drug abuse. The intended focus is on topics not well addressed in existing efforts by educational, community, or media activities.

Eligible organizations include domestic organizations with a scientific and/or educational mission, including colleges and universities, state and local education agencies, professional societies, museums, research laboratories, media producers, private foundations and industries, and other public and private education-related organizations, for-profit or non-profit.

Eligible principal investigators include scientists, educators, media experts, community leaders and others

Website: <http://www.fedgrants.gov/Applicants/HHS/NIH/NIH/PAR-05-105/Grant.html>

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#### Science Education Partnership Award

Requirements: Individuals with the skills, knowledge, and resources necessary to plan, organize, and administer a SEPA project are eligible principal investigators.

Program Description: The National Center for Research Resources (NCRR) invites applications for the Science Education Partnership Awards (SEPA) program whose goals are to foster the development of novel programs to improve the understanding of the clinical trial process and NIH-funded health science advances by K-12 students, teachers and the general public. The SEPA program supports the creation of innovative partnerships between biomedical and clinical researchers and K-12 teachers and schools, museum and science center educators, media experts, and other interested educational organizations. Particular importance will be given to SEPA applications that target K-12 science educational topics that may not be addressed by existing science curricula, community-based or media activities.

Eligible organizations: Domestic organizations with a scientific and/or educational mission are eligible to submit applications. Such entities include colleges and universities, state and local education agencies, biomedical-oriented professional societies, science technology centers, research laboratories, science centers and museums, media producers, private foundations, and other public and private education-related organizations, for-profit or non-profit. Faith-based organizations are also eligible to apply for this Program. Foreign organizations are not eligible to apply. Eligible principal investigators: Individuals with the skills, knowledge, and resources necessary to plan, organize, and administer a SEPA project are eligible principal investigators and are invited to work with their organization and their K-12 partners to submit a SEPA application. An individual may be a principal investigator or co-investigator on only one SEPA grant application or active SEPA project.

Website: <http://www.ncrrsepa.org>

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## Science, Technology, Engineering, and Mathematics Talent Expansion Program

### Requirements: Doctorate

Undergraduate education is central to the National Science Foundation's mission in human resource development. Whether preparing students to participate as citizens in a technological society, to enter the workforce with two- or four-year degrees, to continue their formal education in graduate school, or to further their education in response to new career goals or workplace expectations, undergraduate education provides the critical link between the Nation's secondary schools and a society increasingly dependent upon science and technology. Increasing the number of undergraduate students obtaining degrees in science, technology, engineering, and mathematics (STEM) fields will provide a workforce that is prepared to ensure a healthy economy, respond to demands for national security, and maintain and elevate the quality of life and standard of living in the United States through technological and scientific advancements. A Report from the National Science Board (NSB 03-69), "The Science and Engineering Workforce Realizing America's Potential," recommends that in order to ensure the country's capacity in science and engineering in an increasingly competitive and changing global labor market, "The Federal Government and its agencies must step forward to ensure the adequacy of the US science and engineering workforce. All stakeholders must mobilize and initiate efforts that increase the number of US citizens pursuing science and engineering studies and careers." The Report further recommends that it is essential "to improve success in science and engineering study by American undergraduates from all demographic groups."

Eligibility: 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. The academic institutions must offer either associate degrees or baccalaureate degrees in science, technology, engineering and/or mathematics (STEM). Associate degree-granting institutions with a demonstrated record of articulation to STEM baccalaureate programs need not necessarily grant associate degrees in STEM fields in order to be eligible for this program.

Proposals from a formal consortium should be submitted by the consortium; proposals from an informal consortium or coalition may be submitted by one of the member institutions.

Projects may involve a single institution, collaboration with business and industrial partners, or collaboration among several institutions. For example, projects may include collaborative efforts that improve the transition of students among the collaborating institutions, such as transfer between two- and four-year institutions.

An institution is allowed to submit only one Type 1 proposal, or to be part of only one consortium submitting a Type 1 proposal.

Type 2 proposals are invited from any individual or organization eligible to submit proposals to the NSF. There are no restrictions on the number of Type 2 proposals that an institution may submit.

Website: <http://www.nsf.gov/pubs/2005/nsf05519/nsf05519.htm>

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### Science Undergraduate Laboratory Internship

Requirements: Undergraduate students

Program Description: Students who are majoring in any branch of science, math, engineering and technology are encouraged to apply. The Department of Energy-Headquarters also has interns majoring in science or public policy.

This program places students in paid internships in Science and Engineering at any of several Department of Energy facilities. Many of the participants in the program have decided on a career in science and engineering because of the nature of the experience. Students work with scientists or engineers on projects related to the laboratories' research programs. The different laboratories each offer different research opportunities (see Choosing a Lab).

To be eligible for this program:

1. Must be currently enrolled full time as an undergraduate student and completed at least one college semester. Students who will complete their undergraduate degree prior to starting their internship may apply as Graduating Seniors.
2. Must be 18 years or older at the start of the program
3. Must be a United States Citizen or Permanent Resident Alien
4. Must have earned a high school diploma or GED
5. Can participate in a maximum of two SULI internships
6. Must have coverage under a health insurance plan. It is the responsibility of each participant to secure insurance coverage before arriving at the appointment site.

Website: <http://www.scied.science.doe.gov/scied/erulf/about.html>

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### Scientific Grants and Funding

Website: <http://www.apa.org/science/funding.html>

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### Student Educational Employment Program

Requirements: Undergraduates and Graduate Students

Program Description: The Student Educational Employment Program provides Federal employment opportunities to students who are enrolled or accepted for enrollment as degree seeking students taking at least a half-time academic, technical, or vocational course load in an accredited high school, technical, vocational, 2 or 4 year college or university, graduate or professional school. The Student Educational Employment Program established December 16, 1994, is a streamlined program which replaces the old Federal Student Employment Program by consolidating four programs: Cooperative Education Program, Federal Junior Fellowship Program, Stay-In-School Program, Harry S. Truman Scholarship Program

This new, streamlined program is comprised of two components: the Student Temporary Employment Program (STEP), and the Student Career Experience Program (SCEP). The STEP provides maximum flexibility to both students and managers because the nature of the work does not have to be related to the student's academic or career goals. The SCEP, however, provides work experience which is directly related to the student's academic program and career goals. Students in the SCEP may be noncompetitively converted to term, career or career-conditional appointments following completion of their academic and work experience requirements.

The Student Educational Employment Program benefits both agencies and students. Agencies can discover first-hand the abilities of a potential employee. In the case of SCEP, agencies can bring well educated graduates into their workforce while at the same time give their managers the ability to evaluate the student's performance in real work situations. Students, on the other hand, can avail themselves of such flexibilities as year round employment and flexible work schedules and assignments. Students in the SCEP gain exposure to public service while enhancing their educational goals and shaping their career choices.

We encourage agencies to utilize the Student Educational Employment Program authority for several reasons. Even in an era of downsizing, there is a continuing need to recruit and develop talented employees to support changing agency missions, ensure that the Government can meet its professional, technical, and administrative needs, and achieve a quality and diverse workforce. Appointments made under the Student Educational Employment Program authority can help agencies meet these needs.

You are eligible under the Student Educational Employment Program if you are:

- \* A student enrolled or accepted for enrollment as a degree-seeking student (diploma, certificate, etc.)
- \* At least the minimum age required by Federal, state or local laws and standards governing the employment of minors,
- \* Taking at least half-time academic or vocational and technical course load in an accredited high school, technical or vocational school, 2-year or 4-year college or university, graduate or professional school, and a U.S. citizen or a national (resident of American Samoa or Swains Island). Non-citizens may be eligible for employment if:
  1. permitted by a Federal agency's appropriation act, and
  2. eligible to work under U.S. immigration laws. U.S. citizenship is required for conversion to permanent employment under the Student Career Experience Component.

Website: <http://www.opm.gov/employ/students/index.asp>

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Summer Institute on Design and Conduct of Randomized Clinical Trials Involving Behavioral Interventions

Requirements: Doctorate

Program Description: To provide a thorough grounding in the conduct of randomized clinical trials to researchers and health professionals interested in developing competence in the planning, design, and execution of clinical trials involving behavioral interventions.

Eligibility: Priority will be given to individuals who already have their PhD or MD (or equivalent degrees) and have at least two years of subsequent research experience. Applicants should not yet have achieved a tenured position at their institution. Beyond these eligibility criteria we are seeking researchers who have demonstrated research potential and experience and who will clearly benefit from behavioral randomized controlled trial training. Further, those who have extensive research experience will only be considered after more junior investigators have been evaluated. Preference is also given to individuals who are not employees of NIH. While we will consider and may even accept "exceptional" applicants who do not meet these criteria, priority will go to those who do.

Website: [http://obssr.od.nih.gov/Conf\\_Wkshp/RCT04/RCT\\_Info.htm](http://obssr.od.nih.gov/Conf_Wkshp/RCT04/RCT_Info.htm)

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#### Summer Transportation Internship Program for Diverse Groups

Requirements: Undergraduate

Program Description: The internship program offers interns an exciting 10-week agenda of transportation research, work experience, and field trips to introduce them to the many aspects of the complex field of transportation. Students of various disciplines will work on current issues facing the transportation industry. Each intern may have the opportunity to:

- \* Work at the U.S. DOT in a selected modal administration, in either Washington, D.C., or in selected field offices around the country,
- \* Participate in field trips to transportation related organizations and facilities,
- \* Discuss current transportation issues with key officials,
- \* Participate in and attend workshops, seminars, and field trips based on assignment and location, and
- \* Prepare a written report and make an oral presentation at the end of the internship.

Eligibility:

1. All qualified applicants will be considered regardless of race, color, religion, national origin, gender, age, disability, or marital status.
2. Applicants must be students currently enrolled in a degree-granting program of study at an accredited U.S. institution of higher learning at the undergraduate (college, university, or Tribal College) or graduate levels. Tribal Colleges may include junior colleges and community colleges.
3. Undergraduate applicants must be students who will be juniors or seniors in the fall of 2006 or will have completed their "first year" of school if attending a Tribal College.
4. Students who graduate during the spring or summer semester of 2006 are not eligible for consideration for STIPDG unless: (1) they have been accepted for enrollment in graduate school; or (2) have been

accepted for enrollment in an institution of higher education, if a junior college/community college student. A copy of the letter of acceptance to graduate school or the institution of high education must be submitted with the STIPDG application. If the acceptance is pending, the student must indicate that when the application is submitted.

5. Students currently enrolled in a degree-granting program at the graduate level at an accredited institution of higher learning may apply.

6. Law students may apply if they will enter their second or third year of law school in the fall of 2006.

7. All candidates will be evaluated based on the "Selection Criteria" listed below. Priority will be given to students with a GPA of 3.0 or better.

8. Former interns may apply but will not receive preferential consideration.

Website: <http://www.fhwa.dot.gov/education/stipdg.htm>

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#### Technical Intramural Research Training Award

Requirements: Bachelors or Masters

Program Description: The Technical Intramural Research Training Award (IRTA) fellowships are designed to produce a cadre of highly trained support professionals capable of performing the latest advanced techniques in a research laboratory. These fellowships are available in the intramural laboratories at the National Institutes of Health (NIH) in Bethesda, Maryland and selected off-campus locations. In addition to the developmental experiences afforded to participants in the laboratory, additional training at accredited institutions as well as through the Foundation for the Advanced Education in the Sciences is available.

To be eligible for this program, candidates must have graduated from an accredited U.S. college or university with a bachelor's or master's degree. The initial fellowship award is for two years and can be extended for a maximum of three years. Fellowships are processed in one-year increments and do not carry a service payback obligation.

Website: <http://www.training.nih.gov/student/Pre-IRTA/irtamanualtechnical.asp>

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#### Training for Diversity (Centers of Excellence)

Centers of Excellence (COE) grants assist health professions schools to support programs of excellence in health professions education for minority individuals in allopathic and osteopathic medicine, dentistry, pharmacy, and graduate programs in behavioral or mental health (clinical and counseling psychology, clinical social work, marriage and family therapy). COE strengthens the national capacity to train students from minority groups that are under-represented in these health professions and helps to build a more diverse health care workforce.

The three-year grants support efforts that:

- \* Develop a competitive applicant pool;
- \* Enhance academic performance;
- \* Provide faculty development to train, recruit, and retain under-represented, minority faculty, including payment of stipends and fellowships;
- \* Focus on minority health issues in information resources, clinical education, and curricula;
- \* Facilitate faculty and student research in minority health;
- \* Provide community-based clinical training in which students care for significant numbers of racial and ethnic minority patients; and
- \* Provide stipends to students who are from racial and ethnic groups under-represented in the health professions.

#### Eligibility

- \* Schools of Medicine (allopathic or osteopathic), Dentistry, Pharmacy, and graduate programs in Behavioral or Mental Health;
- \* Enrollment of African American, Hispanic, American Indian, and Alaska Native students significantly higher than the national average;
- \* Hispanic Centers of Excellence give priority to programs that serve Hispanic individuals; and
- \* Native American Centers of Excellence focus on programs that serve American Indians and Alaska Natives and establish a linkage with at least one public or private, nonprofit institution of higher education (including schools of nursing) that have traditionally enrolled a significant number of Native Americans.

Website: <http://bhpr.hrsa.gov/diversity/coe/default.htm>

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#### Tribal Colleges and Universities Program

##### Requirements: Doctorate

Program Description: This program provides awards to enhance the quality of science, technology, engineering and mathematics (STEM) instructional and outreach programs at Tribal Colleges and Universities, Alaskan Native-serving Institutions and Native Hawaiian-serving institutions. Support is available for the implementation of comprehensive institutional approaches to strengthen STEM teaching and learning in ways that improve access to, retention within, and graduation from STEM programs. Through this program, assistance is provided to eligible institutions in their efforts to bridge the digital divide and prepare students for careers in information technology, science, mathematics and engineering fields. Proposed activities should be the result of a careful analysis of institutional needs, address institutional and NSF goals, and have the potential to result in significant and sustainable improvements in STEM program offerings. Typical project implementation strategies include curriculum enhancement, faculty professional development, undergraduate research and community service, academic enrichment, infusion of technology to enhance STEM instruction, collaborations, and other activities that meet institutional and community needs.

Organization Limit: Organizations eligible to submit proposals are Tribal Colleges and Universities, Alaska Native-serving institutions and Native Hawaiian-serving institutions as defined in Section III of this solicitation.

PI Eligibility Limit: The Principal Investigator is expected to be the chief academic officer of the institution, or other senior academic officer responsible for oversight and management of curriculum and instructional policies for the institution.

Limit on Number of Proposals: Eligible institutions may not receive more than one TCUP Phase I award in any five-year period, although they may participate in other TCUP funding opportunities.

Website: <http://www.nsf.gov/pubs/2004/nsf04602/nsf04602.htm>

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### Undergraduate Scholarship Program for Individuals from Disadvantaged Backgrounds

Requirements: Undergraduate

The National Institutes of Health (NIH) Undergraduate Scholarship Program (UGSP) offers competitive scholarships to students from disadvantaged backgrounds who are committed to careers in biomedical, behavioral, and social science health-related research. The program offers:

- \* Scholarship support
- \* Paid research training at the NIH during the summer
- \* Paid employment and training at the NIH after graduation

Eligibility: The NIH Undergraduate Scholarships are awarded on a competitive basis to students who show a commitment to pursuing careers in biomedical, behavioral, and social science health-related research. The following are the basic requirements: U.S. citizen, national, or qualified non-citizen. Enrolled or accepted for enrollment as a full-time student for the 2006-2007 academic year at an accredited, 4-year undergraduate institution, From a disadvantaged background. Disadvantaged background means that your financial aid office has certified you as having "exceptional financial need," 3.5 GPA or higher (on a 4.0 scale) or within the top 5 percent of your class.

Website: <http://ugsp.info.nih.gov/exesumfaq.htm>

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