

FUNDING SOURCES AND TYPES OF GRANTS

Ann Nichols-Casebolt
Associate Vice President for Research Development

NATIONAL INSTITUTES OF HEALTH <http://grants1.nih.gov/grants/guide/index.html>

Request for Applications (RFA): Requests for Applications (RFAs) are typically one-time solicitations for grant applications addressing a defined research topic. Although there are exceptions, these types of solicitations offer only one Application Receipt Date.

Program Announcements (PA): A Program Announcement (PA) is used by the institute to announce its interest in building or enhancing its research program in a particular area. The PA typically is an ongoing solicitation, accepting applications for multiple receipt dates.

R Awards	Research Project Grants:
R01	Research Project Grants -- provide support to an institution on behalf of a principal investigator for a project proposed by the investigator. Most NIH research is through the R01.
R03	Small Grants -- provide limited research support usually for preliminary, short-term projects; two years maximum; nonrenewable.
R13	Conference Grants -- provide funding for conferences to exchange and disseminate information related to program interests.
R21	Exploratory/Developmental Grant -- encourage new research in given program area; preliminary data not generally required.
R24	Resource-Related Research Projects -- support research projects to enhance capacity of resources that serve biomedical research.
R25	Education Projects -- support to develop or implement a program in education, information, training, technical assistance, coordination, or evaluation.
R34	Clinical Trial Planning Grant -- supports initial development of a clinical trial , e.g., establishing a research team, developing tools for managing data and overseeing the research, and developing a trial design, protocol , recruitment strategies, and procedure manuals
R41/42	Small Business Technology Transfer (STTR) Grants -- support collaborative research by a small business with a research institution on a project intended for commercialization. A Phase I grant (R41) is used to establish the technical merit and feasibility of the research concept. A Phase II grant (R42) supports further research leading to a product or service.
R43/44	Small Business Innovation Research (SBIR) Grants -- support small business research on a project intended for commercialization. A Phase I grant (R43) is used to establish the technical merit and feasibility of the research concept. A Phase II grant (R44) supports further research leading to a product or service.

R56	High Priority, Short Term Project Award -- provides interim, nonrenewable research support for up to one year to highly meritorious R01 applications with percentiles beyond the payline. Investigators may not apply for R56 grants.
F Awards	Fellowships
F32	National Research Service Awards (NRSA) for Individual Postdoctoral Fellows -- provide individual fellowships to postdoctoral trainees.
F33	National Research Service Awards (NRSA) for Senior Fellows -- provide opportunities for experienced scientists to make major changes in the direction of their research careers, broaden their scientific background, or acquire new research capabilities.
K Awards	Career Development Awards: http://grants2.nih.gov/training/careerdevelopmentawards.htm
K01	Mentored Research Scientist Development Award: Career development in a new area of research. 3-5 yrs;
K02	Independent Scientist Award: Develop the career of the funded scientist. 5 yrs; 75% effort.
K05	Senior Scientist Award: For outstanding scientists with a sustained level of high productivity. 5 yrs; 75% effort
K07	Academic Career Award: Developmental/Leadership in academic instruction, research, administration. 2-5 yrs, 25-75% effort; requires institutional sponsorship.
K08	Mentored Clinical Scientist Development Award: Development of the independent clinical research scientist. 3-5 yrs; 75% effort.
K12	Mentored Clinical Scientist Development Program Award: Support to an institution for the development of independent clinical scientists. 5 yrs; 75% effort; initiated by the educational institution.
K18	Career Enhancement Award for Stem Cell Research: Supports full-time or part-time training in the use of human or animal embryonic, adult, or cord blood stem cells. Usually 6 months to 1 year (up to 2 years allowed) full or part-time.
K22	Career Transition Award: Support to an individual postdoctoral fellow in transition to a faculty position.
K23	Mentored Patient-Oriented Research Career Development Award: Development of the independent research scientist in the clinical arena. 3-5 yrs, 75% commitment.
K24	Midcareer Investigator Award In Patient-Oriented Research: Development of clinical mentors conducting funded research. 3-5 years, 25 to 50% effort
K25	Mentored Quantitative Research Development Award (K25): To foster interdisciplinary collaboration in biomedical research by supporting career development experiences for scientists with quantitative and engineering backgrounds. 3-5 yrs; 75% effort

K26	Midcareer Investigator Award In Mouse Pathobiology Research: Provides support for established pathobiologists who wish to devote up to 50 percent of their effort to research and mentoring in the field of mouse pathobiology. 3- 5 years, 25 to 50% effort
K30	Clinical Research Curriculum Development: Institutional award for development of a clinical research curriculum. 5 yrs.
K99/R00	NIH Pathway to Independence (PI) Award (K99/R00): supports salary and research expenses for up to two years in the mentored K99 phase for new investigators. The R00 phase provides salary and fringe benefits to continue the research project independently. In the second phase the investigator must have a tenure-track, full-time assistant professor position or equivalent. The transition from a K99 to an R00 is not automatic.
T Awards	Institutional Training Awards
T15	Continuing Education Training Grants -- assist in establishing, expanding, or improving programs of continuing professional education, especially for programs involving new developments in the science of technology.
T32	Institutional National Research Service Awards (NRSA) -- fund academic institutions for training pre- and postdoctoral candidates.
T35	NRSA Short-Term Research Training Awards -- provide research training during off-quarters or summer periods.
P Grants	Research Program Projects and Centers
P01	Research Program Projects -- provide an institution with support of a multidisciplinary, often long-term research program with an objective or theme involving the organized efforts of groups of investigators.
P20	Exploratory Grants – supports planning activities of interdisciplinary and multi-project programs
P30	Center Core Grants -- support shared resources and facilities for a multidisciplinary research team or a group of investigators focusing on a common research topic.
P50	Specialized Centers -- supports R&D from basic to clinical and may involve ancillary support activities such as patient care.
Trans-NIH Awards	
varies	Research Supplements to Promote Diversity in Health-Related Research -- provides administrative supplements to recruit talented researchers currently underrepresented in the biomedical, clinical, behavioral, and social sciences. Direct costs for individual administrative supplements vary from less than \$5,000 to more than \$75,000 depending on the career level of the candidate. Special trans-NIH initiatives are ongoing. For more discussion, see http://grants.nih.gov/grants/funding/funding_program.htm#Trans .

OTHER HEALTH AND HUMAN SERVICES FUNDING SOURCES

<http://www.hhs.gov/grantsnet/FundOther.htm>

HHS publicizes grant-funding opportunities through **Grants.gov**. Programs may also provide additional information about funding opportunities on their own websites.

ADMINISTRATION FOR CHILDREN & FAMILIES (ACF)	ACF programs promote the well being of families, children, individuals and communities. http://www.acf.hhs.gov/grants/index.html
ADMINISTRATION ON AGING (AOA)	AOA provides funding to support a nationwide aging network and services to the elderly. http://www.aoa.gov/doingbus/fundopp/fundopp.aspx
AGENCY FOR HEALTHCARE RESEARCH & QUALITY (AHRQ)	AHRQ funds cross-cutting research designed to improve the quality of health care, reduce its costs, and broaden access to essential services. http://www.ahrq.gov/fund/
ASSISTANT SECRETARY FOR PLANNING & EVALUATION (ASPE)	ASPE is responsible for major activities in policy coordination, legislation development, strategic planning, policy research, evaluation, and economic analysis. http://aspe.hhs.gov/info/funding.shtml
CENTERS FOR DISEASE CONTROL (CDC)	CDC programs promote health and quality of life by preventing and controlling disease, injury and disability http://www.cdc.gov/about/funding.htm
CENTERS FOR MEDICARE & MEDICAID SERVICES (CMS)	CMS administers the Medicare and Medicaid programs, which provide health care to America's aged and indigent populations. CMS also administers the State Children's Health Insurance Program (SCHIP). http://www.cms.hhs.gov/
FOOD & DRUG ADMINISTRATION (FDA)	FDA is a regulatory agency that protects American consumers by enforcing the Federal Food, Drug, and Cosmetic Act and several related public health laws. http://www.fda.gov/oc/ofacs/grants/
HEALTH RESOURCES & SERVICES ADMINISTRATION (HRSA)	HRSA provides funding to improve health by assuring quality healthcare to underserved, vulnerable and special need populations. HRSA supports a nationwide network of 643 community and migrant health centers and 144 primary care programs for the homeless and residents of public housing. http://www.hrsa.gov/grants/
OFFICE OF MINORITY HEALTH RESOURCE CENTER (OMHRC)	The mission of the Office of Minority Health (OMH) is to improve and protect the health of racial and ethnic minority populations through the development of health policies and programs that will eliminate health disparities. http://www.omhrc.gov/
OFFICE OF POPULATION AFFAIRS (OPA)	The Office of Population Affairs (OPA) serves as the focal point to advise on a wide range of reproductive health topics, including adolescent pregnancy, family planning, and sterilization, as well as other population issues. http://opa.osophs.dhhs.gov/grants.html
SUBSTANCE ABUSE & MENTAL HEALTH SERVICES ADMINISTRATION (SAMSA)	SAMHSA primarily provides funding to develop new ways to improve the prevention and treatment of substance abuse and mental illnesses. http://www.samhsa.gov/grants/

DEPARTMENT OF EDUCATION

<http://www.ed.gov/news/fedregister/announce/index.html>

The U.S. Department of Education provides research funding to improve elementary and secondary schools and meet the special needs of students, to help strengthen teaching and learning in colleges and other postsecondary institutions, and to support rehabilitation and adult education.

The Department of Education makes discretionary grants and cooperative agreements based on a competitive review process, which are administered by the nine principle offices.

OFFICE OF ENGLISH LANGUAGE ACQUISITION, LANGUAGE ENHANCEMENT, AND ACADEMIC ACHIEVEMENT FOR LIMITED ENGLISH PROFICIENT STUDENTS (OELA)	Administers programs designed to enable students with limited English proficiency to become proficient in English and meet challenging state academic content and student achievement standards.
INSTITUTE OF EDUCATION SCIENCES (IES)	Compiles statistics; funds research, evaluations, and dissemination of information; and provides research-based guidance to further evidence-based policy and practice.
OFFICE OF ELEMENTARY AND SECONDARY EDUCATION (OESE)	Promotes and supports equal educational opportunities and educational excellence for all students.
OFFICE OF POSTSECONDARY EDUCATION (OPE)	Directs, coordinates, and recommends policies for programs that are designed to provide financial assistance to eligible students; improve postsecondary educational facilities and programs; recruit and prepare disadvantaged students for postsecondary programs.
OFFICE OF SPECIAL EDUCATION AND REHABILITATIVE SERVICES (OSERS)	Assists in the education of children with disabilities and the rehabilitation of adults with disabilities
OFFICE OF SAFE AND DRUG-FREE SCHOOLS (OSDFS)	OSDFS supports efforts to create safe schools, respond to crises, prevent drug and alcohol abuse, ensure the health and well-being of students, and teach students good citizenship and character.
OFFICE OF INNOVATION AND IMPROVEMENT (OII)	Makes strategic investments in promising educational practices through grants to states, schools, and community and nonprofit organizations

NATIONAL SCIENCE FOUNDATION
<http://www.nsf.gov/funding/aboutfunding.jsp>

NSF is organized hierarchically: Disciplinary Directorates are the broadest categories, and each contains a number of more specialized Divisions. In addition to the general types of funding opportunities listed below, Directorates may have specialized opportunities. All NSF R&D is classified as research and 91% as "basic" research.

Program announcements: The term "program announcement" refers to formal NSF publications that announce NSF programs. Program announcements utilize the generic eligibility and proposal preparation guidelines specified in the Grant Proposal Guide (http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg) and incorporate the National Science Board (NSB) approved merit review criteria.

Program descriptions: The term "program description" includes broad, general descriptions of programs and activities in NSF Directorates and Divisions, such as those included in NSF's Guide to Programs. Program descriptions are often posted on Directorate/Division websites to encourage the submission of proposals in specific program areas of interest to NSF.

Program Solicitation: The term "program solicitation" refers to formal NSF publications that encourage the submission of proposals in specific program areas of interest to NSF. They generally are more focused than program announcements, and normally apply for a limited period of time.

Dear Colleague Letter: Dear Colleague letters are intended to provide general information to the community, clarify or amend an existing policy or document, or inform the NSF proposer community about upcoming opportunities or special competitions for supplements to existing awards.

CAREER	Intended for faculty members who are at or near the beginning of their academic careers; A major objective of the CAREER Program is to encourage the integration of research and education. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5262
SGER	Small Grants for Exploratory Research (SGER) Proposals are for small-scale, exploratory, high-risk research in the fields of science, engineering and education. http://www.nsf.gov/pubs/gpg/nsf04_23/2.jsp#IID1
EQUIPMENT	Proposals for specialized equipment may be submitted by an organization for: (1) individual investigators; (2) groups of investigators within the same department; (3) several departments; (4) organization(s) participating in a collaborative or joint arrangement; (5) any components of an organization; or (6) a region. http://www.nsf.gov/pubs/gpg/nsf04_23/2.jsp#IID4
CONFERENCES, SYMPOSIA & WORKSHOPS	NSF supports conferences, symposia and workshops in special areas of science and engineering that bring experts together to discuss recent research or education findings or to expose other researchers or students to new research and education techniques. http://www.nsf.gov/pubs/gpg/nsf04_23/2.jsp#IID7
INTERNATIONAL TRAVEL	Proposals for travel support for US participation in international scientific and engineering meetings held abroad are handled by the NSF organizational unit with program responsibility for the area of interest.
ADVANCE	ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers supports projects to increase representation and advancement of women in academic science and engineering careers. Three types of awards: Partnerships for Adaptation, Implementation, and Dissemination; Institutional Transformation; and Institutional Transformation Planning Grants. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5383&from=fund

DEPARTMENT OF DEFENSE

CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS	Research programs encompassing breast, prostate, and ovarian cancers, neurofibromatosis, military health, and other specified areas. Since fiscal year 1992, the CDMRP has managed approximately \$3.4 billion in Congressional appropriations for peer-reviewed research aimed to prevent, control, and cure disease. http://cdmrp.army.mil/research.htm
DEFENSE BASIC RESEARCH PROGRAM	Defense research is conducted in the following disciplines: Physics (9%), Chemistry (9%), Mathematics (7%), Computer Science (6%), Electronics (13%), Materials Science (8%), Mechanics (13%), Terrestrial Sciences (3%), Ocean Sciences (13%), Atmospheric and Space Sciences (6.0%), Biological Sciences (9%), Cognitive and Neural Science (4%). http://www.dod.mil/ddre/funding_opps.htm
ONR LIFE SCIENCES RESEARCH DIVISION	Supports innovative applied research proposals. Interests include cognitive science, marine life sciences, biosensors, biomaterials, bioprocesses, environmental and biological effects of directed energy, stress physiology, decision research, biorobotics, neuroscience, social networks, chemical and biological defense, human factors, and organizational design. http://www.onr.navy.mil/sci_tech/34/341/
YOUNG INVESTIGATOR RESEARCH PROGRAM	Support scientists and engineers who have received Ph.D. or equivalent degrees in the last five years and who show exceptional ability and promise for conducting basic research. AFSOR: http://www07.grants.gov/search/search.do;jsessionid=L3fScnRmRwYfFk5vcpwwR4XR2SNNbY7KYQMC11ghmTXL213nShnz!-1247321949?oppld=41144&flag2006=false&mode=VIEW . ONR: http://www.onr.navy.mil/sci_tech/3t/corporate/yip.asp .

VCU INTERNAL FUNDING SOURCES

A.D. WILLIAMS GRANTS AND AWARDS	Supports biomedical research up to \$15,000; faculty development up to \$2,500; faculty release time to write extramural grant up to \$7,500; multi-school research projects up to \$140,000. http://www.vcu.edu/adw/
AMERICAN CANCER SOCIETY INSTITUTIONAL RESEARCH GRANTS	Funds up to \$20,000 for innovative cancer research projects that have the potential for future peer reviewed funding. Awards limited to junior-level faculty members. http://www.massey.vcu.edu/research/?pid=2005
CLINICAL RESEARCH FEASIBILITY FUNDS (CREFF)	Supports innovative, patient-oriented clinical research up to \$20,000. Priority given to junior faculty. http://www.vcuhealth.org/crc/caps.htm

VIRGINIA FUNDING SOURCES

ALZHEIMERS AND RELATED DISEASES AWARD FUND	Supports research of all types related to Alzheimer's or dementia up to \$40,000. www.vcu.edu/vcoa/ardraf.htm
COMMONWEALTH HEALTH RESEARCH BOARD	Supports research up to \$100,000 for 1 year or \$200,000 for 2 years for medical and biomedical research related to causes & cures of diseases, health services, and delivery of health care. Very competitive; only 15 can submit from VCU. http://chr.org/linked_documents/2009GuideLines.doc
JEFFRESS MEMORIAL TRUST	Supports basic biomedical research up to \$30,000 for 1 st year and \$10,000 for 2 nd & 3 rd years. www.research.vcu.edu/JeffressMemorialTrust.pdf

OTHER NONPROFIT FOUNDATIONS THAT FUND RESEARCH

(links to each of these are on the VP for Research website at www.research.vcu.edu/es.htm)

- American Cancer Society
- American Federation for AIDS Research (AmfAR)
- American Federation for Aging Research (AFAR)
- American Heart Association (AHA)
- American Lung Association
- American Paralysis Association – Christopher Reeve Paralysis Foundation
- Arthritis Foundation
- Arthur Vining Davis Foundations
- Association for the Cure of Cancer of the Prostate (Cap CURE)
- Burroughs Welcome Fund
- Cancer Research and Prevention Foundation
- Christensen Fund
- Dermatology Foundation
- Hereditary Disease Foundation
- Howard Hughes Medical Institute
- International Union Against Cancer
- John D. and Catherine T. MacArthur Foundation
- The Leukemia and Lymphoma Society
- March Of Dimes
- National Alliance of Breast Cancer Organizations (NABCO)
- National Alliance for Research on Schizophrenia and Depression
- National Kidney Foundation
- National Organization of Rare Disorders (NORD)
- National Osteoporosis Foundation
- Orthopaedic Research and Education Foundation
- Paralyzed Veterans of America
- Pew Charitable Trusts
- Robert Wood Johnson Foundation
- Whitaker Foundation