

National Aeronautics & Space Administration (NASA)

NASA's **Supersonics Project** is aligned with the ARMD principles of maintaining intellectual stewardship of aeronautical core competencies for the nation in the supersonic flight regime and of focusing research in areas that are appropriate to the sponsor's unique capabilities. The Project supports the Fundamental Aeronautics Program strategy of developing systems level multidisciplinary capabilities for supersonic civilian and military applications. Visit

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solld={8AA62753-0F6B-3791-4A43-3DEF562FA257}&path=open>

U.S. Department of Defense (DOD)

The Space and Naval Warfare Systems Center, Atlantic (SSC-LANT) requires **services from undergraduate and graduate students and faculty/educational institutions to provide analytical and technical services to support research and development efforts**. The purpose of this effort is to support the Advanced Research and Development projects of SSC LANT and their customers. These support services shall include, but not be limited to, the following areas of studies: Physics, Mathematics, Computer Science and Engineering, Computer Hardware Engineering, Embedded Systems, Clothing & Materials, Communications, and services architectures. The primary places of performance shall be at the institutions of higher learning's campus located within a 300-mile radius from SSC LANT's major facilities in Charleston, SC, Norfolk, VA, and New Orleans, LA. Visit

<https://www.fbo.gov/?s=opportunity&mode=form&id=345bb30c0da16fb96cbd6b1333e1a12b&tab=core&cvview=0>

The Army Research Office (ARO) invites applications for a pilot youth science program, the **High School Apprenticeship Program**, which will fund the science, technology, engineering, or math apprenticeship of promising high school juniors and seniors to work in a university structured research environment under the direction of existing ARO-sponsored principal investigators serving as mentors. Awards will be made as add-ons to existing single-investigator grants originally awarded under an ARO Broad Agency Announcement that have at least 12 months' period of performance remaining from the date of the Apprenticeship Program proposal submission. Total funding for the pilot program is \$360,000. Proposals are due Dec 31. More information regarding W911NF-10-R-0001 is available at:

<http://www.arl.army.mil/www/DownloadedInternetPages/CurrentPages/DoingBusinesswithARL/research/W911NF%2010%20R%200001.pdf>

The Congressionally Directed Medical Research Program's Breast Cancer Research Program invites applications for **Breast Cancer Postdoctoral Fellowship Awards**. Eligible institutions are for-profit, nonprofit, public, and private organizations and not on the Excluded Parties List System. Opportunity closing date is Dec 2. More information regarding W81XWH-09-BCRP-POSTDOC2 is available at: <http://apply07.grants.gov/apply/opportunities/instructions/oppW81XWH-09-BCRP-POSTDOC2-cfda12.420-instructions.pdf>

The Congressionally Directed Medical Research Program's Breast Cancer Research Program invites applications for the **Era of Hope Scholar Award**. Eligible institutions are for-profit, nonprofit, public, and private organizations and not on the Excluded Parties List System. Opportunity closing date is Dec 2. More information regarding W81XWH-09-BCRP-EOHS2 is available at:

<http://apply07.grants.gov/apply/opportunities/instructions/oppW81XWH-09-BCRP-EOHS2-cfda12.420-instructions.pdf>

National Science Foundation (NSF)

NSF's Office of Polar Programs offers **Arctic Research Opportunities**. The sponsor invests in scientific research about the arctic region and related research and operational support. Science programs are suitable for disciplinary, multidisciplinary and broad, interdisciplinary investigations directed toward both the Arctic as a region of special scientific interest and a region important to the global system. Visit <http://www.nsf.gov/pubs/2010/nsf10503/nsf10503.htm>

NSF's Directorate for Mathematics and Physical Sciences provides **Astronomy and Astrophysics Research Grants** for individual investigators and collaborative groups for observational, theoretical, laboratory and archival data studies in all areas of astronomy and astrophysics, including but not limited to: Planetary Astronomy; Stellar Astronomy and Astrophysics; Galactic Astronomy; and Extragalactic Astronomy and Cosmology. Visit http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13630&WT.mc_id=USNSF_39

NSF invites research proposals for **Innovations in Engineering Education, Curriculum, and Infrastructure**. The program supports research that addresses three aspects of engineering education: (1) how students best learn the ideas, principles, and practices to become creative and innovative engineers, and how this learning is measured (2) how to more effectively translate successes in engineering education research into widespread practice with consideration of curriculum, student learning, innovation models, and cyber-learning technology, and (3) implementation of programs for students supported by the GI Bill. Up to 40 awards may be made in total from anticipated funding \$8.5 million. Eligibility is unrestricted. Proposals are due Jan 20 for area 1 projects and Mar 30 for area 2 and 3 projects. More information regarding NSF 10-502 is available at:

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf10502

The National Science Foundation invites applications for the **Research and Evaluation on Education in Science and Engineering** (REESE) program to advance research at the frontiers of science, technology, engineering and mathematics learning, education, and evaluation, and to provide the foundational knowledge necessary to improve STEM teaching and learning at all educational levels and in all settings. Up to 50 awards will be provided from a total pool of \$27 million for FY10. Eligibility is unrestricted. Applications are due Nov 12. More information regarding NSF 09-601 is available at: <http://www.nsf.gov/pubs/2009/nsf09601/nsf09601.htm>

The Office of Polar Programs invites applications for **Arctic Research Opportunities** to gain a better understanding of the Arctic's physical, biological, geological, chemical, social and cultural processes, and the interactions of ocean, land, atmosphere, biological, and human systems in the Arctic. Up to 40 awards will be provided from a total pool of \$16 million for FY10. Eligibility is unrestricted domestically. Applications are due Jan 14. More information regarding NSF 10-503 is available at: http://www.nsf.gov/pubs/2010/nsf10503/nsf10503.htm?WT.mc_id=USNSF_25

NSF's **EPSCoR Research Infrastructure Improvement Program** (Track Two) awards provide up to \$2 million per year for up to 3 years to consortia of EPSCoR jurisdictions to support innovation-enabling cyberinfrastructure of regional, thematic, or technological importance. Visit http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503336&WT.mc_id=USNSF_39

U.S. Department of Health and Human Services (DHHS)

The National Institute of Diabetes and Digestive and Kidney Diseases intend to solicit one application for the **Beta Cell Biology (BCBC) Coordinating Center** to maintain the ongoing administrative infrastructure for the BCBC. The BCBC Coordinating Center together with participating U01 awardees from RFA-DK-09-011 will constitute the Beta Cell Biology Consortium whose aim is to generate necessary reagents and conduct research that will lead to the development of new cell-based therapies for diabetes. This FOA will utilize the U01 grant mechanism. Visit <http://grants1.nih.gov/grants/guide/rfa-files/RFA-DK-09-504.html>

The National Center for Research Resources provides **support for the continued development, maintenance, testing and evaluation of existing software**. The proposed work should apply best practices and proven methods for software design, construction, and implementation to extend the applicability of existing biomedical informatics/computational biology software to a broader biomedical research community. Visit <http://grants1.nih.gov/grants/guide/pa-files/PA-08-010.html>

The National Institute for Occupational Safety & Health provides support for **research related to occupational safety and health**. Eligible applicants are domestic and foreign for-profit or non-profit organizations, public or private institutions, such as universities, colleges, hospitals, and laboratories, units of state and local governments, eligible agencies of the federal government, faith-based or community based organizations, and Indian Tribes, Tribal Government, and/or Organizations. Visit <http://grants1.nih.gov/grants/guide/pa-files/PA-09-139.html>

NSF's Directorate for Engineering supports **Innovations in Engineering Education, Curriculum, and Infrastructure** (IEECI). The (IEECI) program supports research which addresses three aspects of engineering education: how students best learn the ideas, principles, and practices to become creative and innovative engineers, and how this learning is measured; how to more effectively translate successes in engineering education research into widespread practice with consideration of curriculum, student learning, innovation models, and cyber-learning technology; and implementation of programs for students supported by the GI Bill. Visit <http://www.nsf.gov/pubs/2010/nsf10502/nsf10502.htm>

NSF's Directorate for Mathematics and Physical Sciences provides funding to support **mathematics research motivated by or having an effect on problems arising in science and engineering**. Visit http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5664

The National Institutes of Health invite R01 and R21 grants for high risk/impact **bioengineering research** projects for basic and applied multi-disciplinary research that addresses important biological, bioengineering or medical research problems. The grants will support multi-disciplinary research performed in a single laboratory or by a small number of investigators that applies an integrative, systems approach to develop knowledge and/or methods to prevent, detect, diagnose, or treat disease or to understand health and behavior. Award size and duration will vary. Eligibility is unrestricted. Standard submission guidelines and due dates for each grant mechanism apply. More information regarding PA-10-009 (for R01 grants) is available at: <http://grants.nih.gov/grants/guide/pa-files/PA-10-009.html>. For R21 grants, see PA-10-010 available at: <http://grants.nih.gov/grants/guide/pa-files/PA-10-010.html>

The National Institute on Drug Abuse and the National Institute on Alcoholism and Alcohol Abuse invite R01, R03 and R34 research proposals for the **Behavioral & Integrative Treatment Development Program**. The program will support clinical trials, examination of mechanisms of behavior change, determination of dose-response, optimization of combinations, and/or the ascertainment of best sequencing of behavioral, combined, sequential, or integrated behavioral and pharmacological drug abuse treatment interventions. Award size and duration will vary. Eligibility is unrestricted. Standard submission guidelines and due dates for each

grant mechanism apply. More information regarding PA-10-012 (R01 grants) is available at <http://grants.nih.gov/grants/guide/pa-files/PA-10-012.html>. For R03 grants, see PA-10-011 available at: <http://grants.nih.gov/grants/guide/pa-files/PA-10-011.html>. For R34, see PA-10-013 at: <http://grants.nih.gov/grants/guide/pa-files/PA-10-013.html>

The National Institute of Environmental Health Sciences invites P42 grant applications for the **Superfund Hazardous Substance Research and Training Program**. The grants will support coordinated, multi-project, interdisciplinary research programs to address the mandates legislated under the Superfund Amendments and Reauthorization Act of 1986, including the development of: 1) advanced techniques for the detection, assessment, and evaluation of the effect on human health of hazardous substances; 2) methods to assess the risks to human health presented by hazardous substances; 3) methods and technologies to detect hazardous substances in the environment; and 4) basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances. Up to 5 grants may be supported in FY11 with total funding of \$11 million. Eligibility is limited to accredited domestic institutions of higher education. Letters of intent are due Mar 16; full proposals are due Apr 15. More information regarding RFA-ES-09-012 is available at: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-09-012.html>

U.S. Department of Energy (DOE)

DOE's National Energy Technology Laboratory provides Support for Advanced **Coal Research at U.S. Colleges and Universities**. The sponsor provides awards intended to maintain and upgrade the educational, training, and research capabilities of U.S. colleges and universities in the fields of coal science and technology. Visit https://www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public_Opportunities.aspx

Nuclear Regulatory Commission (NRC)

The U.S. Nuclear Regulatory Commission (NRC) invites applications for four nuclear education-related opportunities. Each has its own set of application instructions.

Undergraduate Scholarship and Fellowship Education Grants - NRC requires scholarship and fellowship recipients to serve six months in nuclear-related employment for each full or partial year of academic support. The employment may be with NRC, other Federal agencies, State agencies, Department of Energy laboratories, nuclear-related industry, or academia in the recipients sponsored fields of study. Up to 20 awards may be made. Maximum award size is \$400,000. Applications are due Dec 16. More information regarding HR-FN-1009-NED01 is available at: <http://apply07.grants.gov/apply/UpdateOffer?id=14292>.

Trade School and Community College Scholarship Grants - NRC requires trade school and community college recipients to serve six months in nuclear-related employment for each full or partial year of academic support. The employment may be with NRC, other Federal agencies, State agencies, Department of Energy laboratories, nuclear-related industry, or academia in the recipients' sponsored fields of study. Up to 15 awards may be made from total funding of \$1.5 million. Maximum award size is \$150,000. Applications are due Dec 16. More information regarding HR-FN-1009-NED03 is available at: <http://apply07.grants.gov/apply/UpdateOffer?id=14293>.

Faculty Development Grants recognize the need to attract, recruit or retain highly-qualified individuals in academic teaching careers. Funding is intended to support faculty and their research in the nuclear-related fields of Nuclear Engineering, Health Physics, Radiochemistry and related disciplines as determined by the NRC. The grants specifically target probationary, tenure-track faculty in these academic areas during the first six years of their career. Up to 15 awards may be made, with an individual maximum award size of \$450,000. Applications are due Feb 1. More information regarding HR-FN-1009-NED02 is available at: <http://apply07.grants.gov/apply/UpdateOffer?id=14291>.

Nuclear Education Curricula Development Grants support the development of the educational infrastructure to advance the nation's nuclear energy initiatives. Curriculum development in two dozen technical areas will be supported. Up to 50 awards may be made from total funding of \$4.7 million. Applications are due Feb 1. More information regarding HR-FN-1009-NED04 is available at: <http://www.grants.gov/search/search.do;jsessionid=zjyqKh2c1hNR5M89LNT3n0pD7DyvFlyMSwFFSfdmy6nq0IBqVFQp!-82303134?oppld=49895&mode=VIEW>.

U.S. Geological Survey

The purpose of the **National Spatial Data Infrastructure Cooperative Agreements** Program (NSDI CAP) is to fund innovative projects in the geospatial data community to build the infrastructure necessary to effectively discover, access, share, manage, and use digital geospatial data. Specific NSDI CAP areas of emphasis include: documenting, implementing, and providing outreach for FGDC geospatial standards including metadata; expanding geographic information coordination across and between organizational levels; promoting geospatial best practices; advancing geospatial related Web services; framework development; and clearinghouse establishment. Up to 20 awards may be made from total funding of \$1.32 million. Maximum award size is \$75,000. Eligibility is unrestricted. Proposals due Jan 7. More regarding 10HQPA0011 at: <http://apply07.grants.gov/apply/UpdateOffer?id=14283>

American Diabetes Association

The American Diabetes Association and the Association of Specialty Professors invite applications for the ADA-ASP **Young Investigator Innovation Award in Geriatric Endocrinology**. The two-year \$150,000 award funds the early stages of career

development for an endocrinologist with a focus on diabetes, interested in geriatric medicine. The award supports entry-level faculty to integrate geriatrics with novel basic, clinical, or health services diabetes research. Applications due Jan 15. More available at: <http://www.im.org/CareerDevelopment/GrantsandScholarships/TFWS/TFranklinWilliamsAwards/Pages/Endocrinology.aspx>

Fermi National Accelerator Laboratory

The Robert R. Wilson Fellows Program provides **support of independent research for especially promising young scientists in the areas of experimental particle physics**. Visit http://www.fnal.gov/pub/forphysicists/fellowships/robert_wilson/procedure.html

North Pacific Research Board

The sponsor invites proposals for research **activities on or relating to the fisheries or marine ecosystems** in the North Pacific Ocean, Bering Sea, and Arctic Ocean (including any lesser related bodies of water). Visit http://doc.nprb.org/web/10_rfp/2010_RFP-released_2Oct09.pdf

Stanford University

The Clayman Institute--**Residential Research Fellowship** Program provides fellowships for faculty members to drive intellectual and social innovation through interdisciplinary gender studies. For more on this program, visit: <http://www.stanford.edu/group/gender/FellowshipProgram/ApplyIndividual.html>

Dalhousie University

The Izaak Walton Killam **Postdoctoral Fellowship** attracts recently graduated scholars (within the past two years) of superior research ability to Dalhousie University, and to provide the recipients with the opportunity to establish themselves as productive members of the academic community. Visit <http://dalgrad.dal.ca/killam/kpdf/kpdfbrochure.doc>

Mount Holyoke College

Svalbard Research Experience for Undergraduates (REU) provides **opportunities for students to participate in polar science research projects** in Svalbard, Norway. Visit <http://www.mtholyoke.edu/proj/svalbard/apps.shtml>

University of Colorado, Boulder

The University of Colorado invites undergraduates to apply for a **summer Research Experience for highly motivated students interested in solar and space physics**. Visit <http://lasp.colorado.edu/reu/>

American Water Works Association

The Larson **Aquatic Research Support (LARS) Scholarship** provides a master's scholarship of \$5,000 and a doctoral scholarship of \$7,000 for graduate students in the fields of corrosion control, treatment and distribution of domestic and industrial water supplies, aquatic chemistry, analytical chemistry, and/or environmental chemistry. Applicants must be enrolled at an educational institution in Canada, Guam, Puerto Rico, Mexico or the U.S. Visit <http://www.awwa.org/Membership/Content.cfm?ItemNumber=3501&navItemNumber=13974>

American Welding Society

The Matsuo Bridge Company, Ltd. of Japan Scholarship provides financial **assistance to an individual interested in pursuing a career in civil engineering, welding engineering, or welding engineering technology**. Visit <http://www.aws.org/w/a/foundation/scholarships/matsuo.html>

The Arsham Amirikian Engineering Scholarship provides financial **assistance to an engineering student pursuing a career in the application of the art of welding in civil and structural engineering**. Visit <http://www.aws.org/w/a/foundation/scholarships/arsham.html>

Business in the Community

The sponsor provides awards for excellence, **recognizing and celebrating companies who have shown innovation, creativity and a sustained commitment to corporate responsibility**. Visit http://www.bitc.org.uk/awards_for_excellence/index.html

John Merck Fund

The sponsor provides concentrates its activities in six areas: **developmental disabilities, environment, reproductive health, human rights, job opportunities, and civic engagement/defense of the public interest**. Grants are normally made for one year. Visit <http://www.jmfund.org/grant.html>

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