

Physics



Courtesy: http://europe.cnn.com/TECH/9601/shuttle/01-11/space_shuttle.jpg

High Energy Physics

United States Department of Energy (DOE)

Deadline: Continuous

Amount: The award amount is unspecified. It is anticipated that approximately \$400,000,000 will be available for grant and cooperative agreement awards.

Abstract: The High Energy and Nuclear Physics program supports about 90 percent of the U.S. efforts in high energy and nuclear physics.

The objectives of the High Energy Physics program are to understand the ultimate structure of matter in terms of the properties and interrelations of its basic constituents, and to understand the nature and relationships among the fundamental forces of nature. The research falls into three broad categories:

1. Experimental research
2. Theoretical research
3. Technology R&D in support of the high energy physics program

Contact:

Director
Grants and Contracts Division
Office of Science, SC-64
U.S. Department of Energy
19901 Germantown Road
Germantown, MD 20874-1290
Phone: (301) 903-3624

<http://fr.cos.com/cgi-bin/getRec?id=20021017a16>

Research Division

United States Department of Energy (DOE)

Deadline: Continuous

Amount: The award amount is unspecified. It is anticipated that approximately \$400 million will be available for grant and cooperative agreement awards.

Abstract: The mission of the Fusion Energy Sciences program is to advance plasma science, fusion science, and fusion technology - the knowledge base needed for an economically and environmentally attractive fusion energy source. This program is supported by the Office of Fusion Energy Sciences (OFES) that fosters both applied and basic research and emphasizes international collaboration to accomplish this mission.

This Research Division seeks to develop the physics knowledge base needed to advance the Fusion Energy Sciences program toward its goals. Research into physics issues associated with medium to large scale confinement devices is essential to studying conditions relevant to the production of fusion energy. Experiments on these scale of devices are used to explore the limits of specific confinement concepts, as well as study associated physical phenomena.

Contact:

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Grants and Contracts Division

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19901 Germantown Road
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<http://fr.cos.com/cgi-bin/getRec?id=20011220a104>

New and Innovative Ideas in Kinetic Energy Interceptor Technologies
United States Department of Defense (DOD)

Deadline: Continuous

Amount: \$100,000-\$2,500,000

Abstract: The government is interested in receiving proposals from all offerors capable of satisfying its need for research to advance its capability in missile defense interceptor technologies. Proposals with new or unique ideas intended to enhance the state-of-the-art and scientific knowledge are solicited. Proposals should address the following technical areas: seekers; guidance, navigation, and control; propulsion and divert and attitude control systems (DACs); avionics; windows and structures; innovative algorithm concepts applicable to interceptors; and other applicable interceptor technologies.

Contact:

Patricia Vail
U.S. Army Space and Missile Defense Command
Deputy Commander
Attn: SMDC-CM-AP
P.O. Box 1500
Huntsville, AL 35807-3801
Phone: (256) 955-2688
<http://fedbizopps.cos.com/cgi-bin/getRec?id=20030508a9>

Particle Physics Theory Travel Fund
Particle Physics and Astronomy Research Council (PPARC)

Deadline: Continuous

Amount: Awards are limited to a maximum value of £700 and only one award will be made per person per annum.

Abstract: The Particle Physics and Astronomy Research Council (PPARC) offers a travel fund to encourage international collaboration, managed by the Particle Physics Department at Rutherford Appleton Laboratory (RAL). Grants may be used either for overseas travel by the applicant, or to bring a visiting fellow to the United Kingdom.

Contact:

Particle Physics and Astronomy Research Council
Polaris House, North Star Avenue
Swindon SN2 1SZ, UK
Phone: 44 (0) 1793-442000
Fax: 44 (0) 1793-442002
<http://www.pparc.ac.uk/Rs/Fs/Rg/PATTMainPage.asp#Travel>

Geophysics (PH)

National Science Foundation (NSF)

Deadline: June 01, 2003

Amount: Unknown

Abstract: The Geophysics (PH) program supports laboratory, field, theoretical, and computational studies related to composition, structure, and processes of the Earth's interior. Topics include studies in seismicity and seismic wave propagation; the nature and occurrence of earthquakes; the earth's magnetic, gravity, and electrical fields; and its internal temperature distribution. Supported research also includes geophysical studies of active deformation, including Global Positioning System (GPS)-based geodesy, and fundamental laboratory studies of properties and behavior of earth materials in support of geophysical observation and theory.

Contact:

Dr. Kaye Shedlock, Program Director
National Science Foundation
Directorate for Geosciences
Division of Earth Sciences
4201 Wilson Boulevard
Arlington, VA 22230
Phone: (703) 292-8556
Fax: (703) 292-9025
Mailto: kshedloc@nsf.gov
<http://www.geo.nsf.gov/cgi-bin/geo/showprog.pl?id=72&div=ear>

**Geology and Paleontology (GE)
National Science Foundation (NSF)****Deadline:** June 01, 2003**Amount:** Unknown

Abstract: The Geology and Paleontology (GE) program is interactive on a wide range of space and time scales with the ocean, atmospheric, polar, solid earth, hydrologic, biological, and anthropological sciences. Support for geology and paleontology at the National Science Foundation (NSF) is managed to foster these interactions by encouraging interdisciplinary proposals, and by linking with other NSF programs to arrange joint funding when appropriate.

The program is a very broad one in terms of scientific coverage. In each proposal cycle, it is broken into subcategories to best fit the bulk of the grant requests received. Therefore, these categories will change somewhat with each cycle.

Additional contacts include Dr. Enriqueta Barrera, program director, phone +1 (703) 292-8551, fax +1 (703) 292-9025, ebarrera@nsf.gov; Dr. Rachael Craig, program director, phone +1 (703) 292-8233, fax +1 (703) 292-9025, rcraig@nsf.gov; and Felicia Smith-Mitchell, program assistant,

phone +1 (703) 292-8551, fax +1 (703) 292-9025, fsmith@nsf.gov.

Contact:

Dr. H. Richard Lane, Program Director
National Science Foundation
Directorate for Geosciences
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Phone: (703) 292-8551
Fax: (703) 292-9025
Mailto: hlane@nsf.gov
<http://www.geo.nsf.gov/cgi-bin/geo/showprog.pl?id=12&div=ear>

Lindbergh Grant**The Charles A. and Anne Morrow Lindbergh Foundation****Deadline:** June 12, 2003

Amount: Each year, the Lindbergh Foundation awards 9-10 grants in amounts of up to \$10,580 each (the cost of building the "Spirit of St. Louis" in 1927) for projects addressing the issue of balance in various fields. Over the years, Lindbergh Grants have become increasingly well-known, supporting innovative ideas at an early stage of their development and establishing pilot projects which often subsequently receive extensive funding from other sources. In fact, 48% of Lindbergh Grant Recipients receive \$50,000 or more in follow-up support, and 93% continue their study beyond the term of the grant.

Abstract: Through a wide variety of educational and research projects and programs, the Lindbergh Foundation seeks to further this balance between nature and technology. We remember Charles Lindbergh's words: "The accumulation of knowledge, the discoveries of science, the products of technology, our ideas, our art, our social structures, all the achievements of mankind have value only to the extent

that they preserve and improve the quality of life." We deeply respect Anne Morrow Lindbergh's belief that "power over life must be balanced by reverence for life."

Each year, the Lindbergh Foundation awards 9-10 grants in amounts of up to \$10,580 each (the cost of building the "Spirit of St. Louis" in 1927) for projects addressing the issue of balance in various fields.

Contact:

Lindbergh Foundation
2150 Third Avenue North
Anoka, MN 55303-2200
Phone: (763) 576-1596
Fax: (763) 576-1664
Mailto: info@lindberghfoundation.org
<http://www.lindberghfoundation.org/grants/grantapp2004.html>

Tom W. Bonner Prize in Nuclear Physics

American Physical Society (APS)

Deadline: July 01, 2003

Amount: \$7,500

Abstract: The purpose of the Tom W. Bonner Prize in Nuclear Physics is to recognize and encourage outstanding experimental research in nuclear physics, including the development of a method, technique, or device that significantly contributes in a general way to nuclear physics research. The prize shall ordinarily be awarded to one person, but may be shared when all the recipients have contributed to the same accomplishment.

Contact:

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Tex A&M University
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<http://www.aps.org/praw/bonner/index.html>

Oliver E. Buckley Condensed Matter Physics Prize

American Physical Society (APS)

Deadline: July 01, 2003

Amount: \$5,000

Abstract: The Oliver E. Buckley Condensed Matter Physics Prize recognizes and encourages outstanding theoretical or experimental contributions to condensed matter physics. The prize shall ordinarily be awarded to one person, but may be shared when all the recipients have contributed to the same accomplishments.

Contact:

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<http://www.aps.org/praw/buckley/index.html>

Grants-in-Aid

Caltech Institute Archives

Deadline: July 01, 2003

Amount: \$1,000

Abstract: The Grant-in-Aid may be used for travel and living expenses, for photocopy or other photo-reproduction costs related to the research project, and for miscellaneous research expenses. Funds may not be used for the purchase of computer software or hardware.

Contact:

Archivist
California Institute of Technology
Institute Archives
Mail Code 015A-74
Pasadena, CA 91125
Phone: (626) 395-2704

Fax: (626) 793-8756
Mailto: archives@caltech.edu
<http://archives.caltech.edu/grants-in-aid.html>

Polymer Physics Prize

American Physical Society (APS)

Deadline: July 01, 2003

Amount: \$10,000

Abstract: The Polymer Physics Prize recognizes outstanding accomplishment and excellence of contributions in polymer physics research. The prize shall ordinarily be awarded to one person, but a prize may be shared when all the recipients have contributed to the same accomplishments.

Contact:

Frank Bates, Chair
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<http://www.aps.org/praw/polymer/index.html>

Davisson-Germer Prize in Atomic or Surface Physics

American Physical Society (APS)

Deadline: July 02, 2003

Amount: \$5,000

Abstract: The Davisson-Germer Prize in Atomic or Surface Physics recognizes and encourages outstanding work in atomic physics or surface physics. This prize will normally be awarded in even numbered years for outstanding work in atomic physics and odd numbered years for outstanding work in surface physics. This prize shall ordinarily be awarded to one person, but may be shared when all recipients have contributed to the

same accomplishments.

Contact:

Mara Prentiss, Chair
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<http://www.aps.org/praw/davisson/index.html>

Radio Frequency Sensory Systems for Navy Aircraft

United States Department of Defense (DOD)

Deadline: July 10, 2003

Amount: unknown

Abstract:

The Radio Frequency (RF) Sensors Division of the Avionics Department of NAWCAD Patuxent River, Maryland is soliciting proposals for research in technologies that are applicable to RF Sensor Systems for Navy aircraft. Major areas of interest include the following:

1. Signal processing
2. Antennas and propagation
3. Information processing
4. Devices and materials
5. Radar and RF communications systems engineering methodologies
6. Aircraft installation technologies.

New, innovative, and creative approaches to technical problems that significantly advance radar and RF communication system performance and improve aircraft installations are sought.

An additional contact is Veronica Singmore, contract specialist, phone +1 (301) 757-9734, fax +1 (301) 757-0200, singmorevm@navair.navy.mil.

Contact:

Amy German, Contract Specialist

Department of the Navy, Naval Air
Systems Command
Naval Air Warfare Center, Aircraft
Division
Pax River, Building 441
21983 Bundy Road, Unit 7
Patuxent River, MD 21113
Phone: (301) 342-5738
Fax: (301) 757-1686
Mailto: GermanAM@navair.navy.mil
[http://fedbizopps.cos.com/cgi-
bin/getRec?id=20030411a6](http://fedbizopps.cos.com/cgi-bin/getRec?id=20030411a6)

**Robert H. Dicke Postdoctoral
Fellowships**

Princeton University

Deadline: November 15, 2003

Amount: Unknown

Abstract: The Physics Department of Princeton University announces the 2002 competition for the Robert H. Dicke Postdoctoral Fellowships. The fellowships program provides opportunities for outstanding young physicists to work in the field of their choice. Research may be carried out independently or in collaboration with members of the Physics Department. The nominal starting date is September, 2003. There is the possibility of an additional year at Princeton by mutual agreement. Applicants will also automatically be considered for other available postdoctoral positions. Current areas of research include atomic and laser physics, optical pumping, biophysics, condensed matter experiment, condensed matter theory, theoretical cosmology, observational cosmology and astrophysics, high-energy experiment, mathematical physics, particle astrophysics and dark matter, pulsar physics, and the theory of elementary particles and strings.

Contact:

Professor Daniel Marlow

Dicke Fellowships Committee
Princeton University
Physics Department
P.O. Box 708
Princeton, NJ 08544
Mailto: groth@physics.princeton.edu
[http://www.physics.princeton.edu/~po-
sitions/dicke2003.html](http://www.physics.princeton.edu/~positions/dicke2003.html)

Herbert P. Broida Prize
American Physical Society (APS)

Prizes

Deadline: July 01, 2004

Amount: \$5,000. The prize consists of \$5,000, an allowance for travel to the award ceremony, and a certificate.

Abstract: The Herbert P. Broida Prize was established to recognize and enhance outstanding experimental advancements in the fields of atomic and molecular spectroscopy or chemical physics. Emphasis will be given to work done within the five years prior to the awarding of the prize. Preference will be granted to an individual whose contributions have displayed a high degree of breadth, originality, and creativity.

Contact:

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[http://www.aps.org/praw/broida/index.ht
ml](http://www.aps.org/praw/broida/index.html)

**Opportunities for Enhancing
Diversity in the Geosciences (OEDG)**
National Science Foundation (NSF)

Deadline: October 18, 2004

Amount: \$1,200,000. Under this solicitation, proposals may be submitted requesting funding for up to three years. In exceptional cases, awards for up to

five years may be considered if the justification and promise are compelling. Budgets should be based on the work proposed. Budgets should not exceed \$400,000 per year, and this amount should be requested only for large collaborations and partnerships. Most awards are expected to be much smaller, closer to \$300,000, annually. The program expects to make approximately eight standard or continuing awards depending on the quality of submissions and the availability of funds.

Approximately \$2,000,000 will be available for this program in FY 2003, pending availability of funds. The anticipated award date is six months from the deadline date.

Abstract: The Directorate for Geosciences (GEO) of the National Science Foundation (NSF) supports research in the earth, ocean, and atmospheric sciences. The Opportunities for Enhancing Diversity in the Geosciences (OEDG) program addresses the problem of underrepresentation of certain groups across the geosciences as compared to their proportion of the general population. The primary goal of the OEDG program is to increase the participation in geoscience education and research by students from these groups. This competition focuses on increasing participation or opportunities for African Americans, Hispanics, Native Americans (American Indians and Alaskan Natives), Native Pacific Islanders (Polynesians or Micronesians), and persons with disabilities. A secondary goal of the program is to strengthen the understanding of the geosciences and their contribution to modern society by a broad and diverse segment of the population. The OEDG program supports activities that strengthen geoscience teaching and

learning in ways that improve access to and retention in the geosciences of these underrepresented groups. Typical project strategies include enhanced research experiences for students, strengthening of infrastructure at institutions that serve underrepresented groups, and supporting collaborations between minority-serving institutions and established research programs at colleges and universities or centers. Collaborations between community colleges and research institutions represent another strategy that may be supported.

This program will provide support for projects that undertake one or more of the following three activities:

1. Activities that facilitate the establishment, development, and enhancement of geoscience educational and research capabilities in historically black colleges and universities (HBCUs), Hispanic-serving institutions (HSIs), minority-serving institutions (MSIs), and tribal colleges
2. Activities that foster educational and research partnerships, collaborations, or exchanges between and among targeted institutions, traditional majority-serving institutions (i.e., two- and four-year colleges or universities) research centers, and professional and industrial organizations
3. Outreach activities to underrepresented groups

Contact:

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