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**Research Opportunities Compiled by:**

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**Opportunity #1**

**White-nose Syndrome Research**  
**Department of the Interior**  
**FWS-R5-ES-09-011**

**Description:** The U.S. Fish and Wildlife Service (Service) is currently funding a number of projects related directly to the investigation and management of WNS, and is pleased to announce the opportunity to fund a new round of projects in FY2009. Projects should assist the Service with our ability to conserve Federally-listed bats (e.g., Indiana bats, Virginia big-eared bats, and gray bats). However, surrogate species can, and often should, be used in investigations. (For details of several currently funded projects, please see:

[http://www.fws.gov/northeast/white\\_nose.html](http://www.fws.gov/northeast/white_nose.html) ) FY2009 Priorities Through this request, we intend to fund research that addresses the following questions:

1. What specifically is causing bat mortality? Related questions include:
  - a. What is the role of the fungus (*Geomyces* sp.) in the observed mortalities?
  - b. How do the conditions associated with WNS (e.g. aberrant behavior, apparently altered body condition, physiology, and/or immune response, etc.) relate to mortality and what is their underlying cause?
2. Is WNS transmissible outside of hibernacula (e.g. in summer colonies, during breeding, etc. or to bat species that don't use caves/mines)? If transmissible, by what means?
3. Can WNS be treated or controlled?
4. Are there differences in susceptibility by bat species or individuals that influence survival? We are also interested in projects that will assist the Service with:
  1. Developing successful containment strategies for WNS.
  2. Determining the effects of WNS on bat populations.
  3. Developing WNS monitoring and surveillance strategies.
  4. Identifying rapid assessment protocols to determine whether sites or bats are affected by WNS.
5. Determining the feasibility of captive propagation for insectivorous bats; the species of most immediate concern is the Virginia big-eared bat (*Corynorhinus townsendii virginianus*).
6. Determining the role of captive management/rehabilitation as a response to WNS.

We anticipate making project selections by September 4, 2009 and the earliest start date for funded projects to start is likely September 30, 2009.

**Link to Full Announcement:**

<http://apply07.grants.gov/apply/GetGrantFromFedgrants;jsessionid=Q671K18XzqwLV45DYPffnI0QTh7PDgQZbDJrz7pB2Bt2YLS2HDDs!772105606?opportunity=FWS-R5-ES-09-011&agencycode=DOI-FWS>

**Opportunity #2**

**MCH Research**  
**HRSA**  
**HRSA-10-006**

**Description:** The Maternal and Child Health Research Program will award grants to support applied research relating to maternal and child health services, which show promise of substantial contribution to the advancement of the current knowledge pool. Findings of this research should result in health and health services improvements in States and communities. Research proposals should address critical MCH questions such as public health systems and infrastructure, health disparities, quality of care, and promoting the health of MCH populations.

**Link to Full Announcement:**

<http://www07.grants.gov/search/search.do;jsessionid=bNF7K14VHFfBycd0BFHlk3Fmk6LY3dwLvnXQzcrHKKpGzMr7yx4G8!772105606?oppld=48036&flag2006=false&mode=VIEW>

### Opportunity #3

#### Dear Colleague Letter: Announcement of Target Date for Proposal Submissions National Science Foundation Division of Physics NSF 09-053

**Dear Colleague:** The target date for proposal submission to programs in the Division of Physics varies according to program. For proposals competing for FY 2010 (which begins October 1, 2009) funds, the target date for unsolicited proposals submitted to most programs is September 30, 2009 (except as noted below). For FY 2010, the Division will entertain submissions in the following areas:

- Atomic Molecular and Optical Physics
- Education and Interdisciplinary Research
- Elementary Particle Physics
- Gravitational Physics and LIGO
- Nuclear Physics
- Particle and Nuclear Astrophysics
- Physics at the Information Frontier (Target Date is October 28, 2009)
- Physics of Living Systems (Target Date is July 31, 2009)
- Plasma Physics (Target Date is October 9, 2009)
- Theoretical Physics (All sub-areas)

All proposals should be received at the Foundation by the close of business on the target date. No proposal should be submitted after the target date without having previously received acknowledgement for the late submission from the cognizant Program Director. Delays in submissions may prohibit inclusion of the proposal within the mail and panel reviews for the program as a whole, and review of late proposals may have to be postponed until the following fiscal year in order to assure an impartial review. We also ask that you not submit proposals any earlier than one month before the appropriate target date, unless previously approved by the cognizant Program Director. Proposers are encouraged to browse the NSF Award Search at <http://www.nsf.gov/awardsearch/tab.do?dispatch=4> to ascertain the type of research supported in these programs, or to call the cognizant Program Director if they are uncertain about which program is appropriate for their proposal.

Foundation-wide program solicitations, such as the Faculty Early Career Development (CAREER) or Research Experiences for Undergraduates (REU) programs, have specified target or deadline dates contained in their program announcements or solicitations. Proposals submitted to the Division of Physics as part of these programs must be submitted by the target dates or deadlines given in the program announcement or solicitation. Demonstrably multidisciplinary proposals sent to the Division of Physics, which are likely to be jointly reviewed with other programs within the Foundation, may be impacted by different target or deadline dates for the different programs involved. If you are contemplating submitting such a proposal, you should contact the cognizant Program Director in the Division of Physics before submission.

Proposals submitted in response to this Dear Colleague letter are required to be prepared and submitted in accordance with the general guidelines contained in the NSF Grant Proposal Guide (GPG). The complete text of this document is available electronically on the NSF Website at [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=ggp](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=ggp). Proposers who anticipate difficulty in meeting the 15-page limit on the length of the Project Description must request and receive a deviation in advance of proposal submission. (GPG, Chapter II, Section A, Conformance with Instructions for Proposal Preparation, contains information about deviations from instructions provided in the GPG.) It is advisable to contact the cognizant Program Director in the Division of Physics before requesting a deviation.

There are two general merit review criteria approved by the National Science Board (NSB) and listed in the GPG: the intellectual merit of the proposed activity, and the broader impacts resulting from the proposed activity. All proposals must separately address both of the merit review criteria in the Project Summary and should describe the broader impacts as an integral part of the narrative in the Project Description. Examples illustrating activities likely to demonstrate broader impacts are available electronically on the NSF Website at <http://www.nsf.gov/pubs/gpg/broaderimpacts.pdf>. The Division of Physics emphasizes the importance of thinking about and communicating these connections. Please note that this is not a shift in the priorities or strategic vision of the Division. It is rather a call for greater effort in expressing the broader context of our work.

#### Link to Full Announcement:

[http://www.nsf.gov/pubs/2009/nsf09053/nsf09053.txt?govDel=USNSF\\_25](http://www.nsf.gov/pubs/2009/nsf09053/nsf09053.txt?govDel=USNSF_25)

#### **Opportunity #4**

##### **Basic Research to Enable Agricultural Development National Science Foundation NSF 09-566**

**Description:** The National Science Foundation (NSF) and the Bill & Melinda Gates Foundation (BMGF) are partnering to support a new research program to be administered by NSF. The objective of the BREAD Program is to support innovative scientific research designed to address key constraints to smallholder agriculture in the developing world. A significant distinction between BREAD and other NSF programs is that proposals to BREAD must make a clear and well-defined connection between the outcomes of the proposed research and its direct relevance and potential application to agriculture in the developing world. The BREAD Program will take the activities of the PGRP to the next level by supporting a broader range of scientific research and by enabling funding to be allocated to international collaborators through subawards. The Program's focus is on novel, transformative research at the proof-of-concept stage rather than its application or development. Especially encouraged are original proposals that address major constraints to the productivity of crops important to smallholder farmers, or on the development of novel and efficient production practices. Although the Program places an initial emphasis on crop improvement, it will also consider innovative research proposals from scientists in all fields of research and engineering as long as the proposed research is consistent with the Program objectives. Proposals are also expected to address project outcomes in the context of broader societal impacts, and as appropriate to the research proposed, engage international partners in scientific collaborations.

**Link to Full Announcement:**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf09566](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09566)

#### **Opportunity #5**

##### **NSF Scholarships in Science, Technology, Engineering, and Mathematics National Science Foundation NSF 09-567**

**Description:** This program makes grants to institutions of higher education to support scholarships for academically talented, financially needy students, enabling them to enter the workforce following completion of an associate; baccalaureate; or graduate-level degree in science and engineering disciplines. Grantee institutions are responsible for selecting scholarship recipients, reporting demographic information about student scholars, and managing the S-STEM project at the institution. The program does not make scholarship awards directly to students; students should contact their institutions Office of Financial Aid for this and other scholarship opportunities.

**Link to Full Announcement:**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf09567](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09567)