

WEEKLY FUNDING ALERTS Week of 09.23.10

Featured Funding Opportunities

[Howard Hughes Medical Institute \(HHMI\) – International Student Research Fellowships](#)

Description: A new fellowship program for outstanding international predoctoral students studying in the U.S. who are ineligible for fellowships or training grants through U.S. federal agencies. HHMI will award fellowships to international students to support years three, four, and five of a Ph.D. program. Eligible biomedical-related fields include biology, chemistry, physics, math, computer science, engineering, and plant biology—as well as interdisciplinary research. HHMI expects to fund up to 40 fellowships for the 2011-2012 academic year.

Deadline: Internal: October 15, 2010 / External: December 1, 2010

Amount: Stipend of \$30,000 per year for three years (while students are engaged in their doctoral dissertation research), plus an allowance of \$3,000 which may be used for health insurance, health care expenses, books and supplies, journal subscriptions, computer-related expense, travel to scientific meetings, professional fees or dues, or other relevant purposes.

Eligibility: *Limited submission* – See below and full announcement. OHSU is eligible to nominate no more than three students. Eligible students are international graduate students in the biomedical or related sciences who have demonstrated exceptional talent for research, are in the second (or third) year of graduate study, have entered a laboratory in which they will conduct their dissertation research, and are not U.S. citizens, noncitizen nationals, or permanent residents of the U.S.

Limited Submission: *Please note this opportunity requires internal coordination since an institution may submit only one application. If you intend to apply, complete a limited submission form at <http://ozone.ohsu.edu/research/rda/funding/limsubform.php> before the internal deadline.*

[National Center for Research Resources \(NCRR\) / Oregon National Primate Research Center \(ONPRC\) – Supplemental Nonhuman Primate \(NHP\) Pilot Program](#)

Description: For pilot research related to the use of NHPs for biomedical research or for studies enhancing the welfare or husbandry of NHPs. Pilot research should be developmental or high risk and should be used to generate preliminary data or results necessary to apply for support from sources of funding such as NIH R01 grants. Please note: This program is distinct from the regular ONPRC pilot program in the amount of funding available and the costs which can be covered by the program. This supplemental program provides funds to supplement animal costs only.

Deadline: February 1, 2011; May 1, 2011; August 1, 2011; November 1, 2011

Amount: \$200,000 per year for an unspecified duration.

Eligibility: Complex eligibility requirements apply. See full announcement for eligibility information.

Non-Federal, Foundation and Corporate Opportunities

OHSU Foundation Tracking and Clearance: *Please note all of the following private foundation opportunities require OHSU Foundation clearance, unless otherwise indicated. If you intend to apply, please follow the instructions and complete the OHSU Foundation tracking and clearance form available [here](#).*

Foundation for Angelman Syndrome Therapeutics (FAST) – Multiple Opportunities

- [Postdoctoral Fellowship Program](#) – Encourages research aimed at finding a specific treatment for Angelman Syndrome. FAST's goal is to bring practical treatment into current medical practice as quickly as possible; therefore, preference will be given to research projects that have a clear practical application and the results of which will be shared in a timely fashion. FAST also hopes that grants funded will lead to additional research support from government agencies and other funding sources. || **Deadline:** October 1, 2010 || **Amount:** Approximately \$42,000 per year for two years stipend; \$1,000 per year for travel; and \$3,000 per year for research expenses. || **Eligibility:** Applicant institutions must be nonprofit. Preference will be given to individuals nominated by institutions in the U.S. Foreign individuals must identify a Co-Mentor with an appointment within a US Institution. Individuals nominated by applicant institutions for the Fellowship award should have training and experience at least equal to the Ph.D. or M.D. level.

Fellowship awardees are required to pursue their research training on a full-time basis, normally defined as 40 hours per week, or as specified by the sponsoring institution in accordance with its own policies. Research clinicians must devote full-time to their proposed research training and must restrict clinical duties within their full-time research training experience to activities that are directly related to the research training experience.

- **Grants-in-Aid Program** – Provides targeted funding to enable research projects on Angelman Syndrome to proceed at a rapid pace. These one-time awards are not meant to be the sole support for a research project, but are instead envisioned to enable findings from current projects to be capitalized on, allow for exploratory experiments, or provide funding reagents necessary to move research forward. || **Deadline:** Rolling. || **Amount:** A one-time award up to \$10,000. || **Eligibility:** Institutions receiving grants must be recognized as nonprofit. Individuals should have training and experience at least equal to the Ph.D. or M.D. level. Awardees are required to pursue their research training on a full-time basis, normally defined as 40 hours per week, or as specified by the sponsoring institution in accordance with its own policies. Research clinicians must devote full-time to their proposed research training and must restrict clinical duties within their full-time research training experience to activities that are directly related to the research training experience.

[Pancreatic Cancer Action Network/American Association for Cancer Research \(AACR\) – Multiple Opportunities](#)

- **Leadership Grants** – Supports the future leaders of pancreatic cancer research by funding outstanding career investigators beginning in their postdoctoral research positions and continuing through their successful transition to independence. || **Amount:** Provides up to five years of support, for a total of \$600,000, consisting of two phases. The initial Mentored Phase lasts up to two years, during which time recipients will receive \$75,000 per year and are expected to work closely with their mentor(s) to develop their research. During the subsequent three years, recipients are expected to be in independent research positions and will be funded at \$150,000 per year. || **Eligibility:** Applicants must have a medical and/or doctoral degree in the biomedical sciences or in a field applicable to health science research and not currently be a candidate for a further doctoral or professional degree. Applicants must be in the first five years of a mentored training position at an academic, medical, or research institution within the U.S. (i.e. applicants must have started their postdoctoral or clinical research fellowship on or after July 2, 2006). There are no citizenship requirements. Both AACR members and nonmembers are eligible to apply. However, nonmembers must submit a satisfactory application for AACR active membership by October 29, 2010. See full announcement for additional eligibility information.
- **Fellowship** – Supports postdoctoral and clinical research fellows who are in the first three years of their fellowship training (at the start of the grant term) to conduct pancreatic cancer research and establish successful career paths in this field. The research proposed for funding may be basic, translational, clinical or epidemiological in nature and must have direct applicability and relevance to pancreatic cancer. || **Amount:** \$45,000 for one year to support salary and benefits. A partial amount of funds may be designated for research/laboratory supplies and equipment. || **Eligibility:** Applicants must have a medical and/or doctoral degree in the biomedical sciences or in a field applicable to health science research and not currently be a candidate for a further doctoral or professional degree. Applicants must be in the first, second, or third year of a postdoctoral clinical research fellowship at an academic, medical or research institution within the U.S. There are no citizenship requirements. Both AACR members and nonmembers are eligible to apply. However, nonmembers must submit a satisfactory application for AACR active membership by October 29, 2010. See full announcement for additional eligibility information.

Deadline: October 27, 2010

Amount: Varies – See above and full announcements.

Eligibility: Varies – See above and full announcements.

[American Academy of Neurology \(AAN\) Foundation – Sheila Essey Award for Amyotrophic Lateral Sclerosis \(ALS\) Research](#)

Description: Recognizes an individual who has made significant research contributions in the search for the cause, prevention of, and cure for ALS. The criteria being used to determine the recipient include recent major scientific impact, long-term scientific impact, and overall impact to ALS. Recipient is expected to present a 20-minute lecture during the Awards Plenary Session at the 63rd AAN Annual

Meeting.

Deadline: November 1, 2010

Amount: Certificate of recognition and \$25,000 prize to be used by recipient to continue ALS research.

Eligibility: Applicants must be actively engaged in ALS research.

Society for Academic Emergency Medicine (SAEM) – Emergency Medical Services Research Fellowship

Description: Fosters teaching, education, and research in emergency medicine. This fellowship provides an opportunity for a qualified emergency physician to acquire important skills and begin to develop expertise as part of an academic career with a focus in emergency medical services (EMS). The mission of the grant is to develop the academic potential of the selected fellow by providing support for a one-year training fellowship that develops both EMS leadership and research.

Deadline: November 1, 2010

Amount: \$60,000 for one year.

Eligibility: The applicant must be a senior emergency medicine resident at an accredited emergency medicine residency program or in the first year after completion of an accredited emergency medicine residency, and be board eligible or certified by the American Board of Emergency Medicine, or pediatric emergency medicine. The application may not have previously completed more than one year of an EMS fellowship. Additionally, the applicant shall have demonstrated a sustained interest in EMA, but prior experience as a prehospital care provider is not required. He/she shall have demonstrated interest in research. This may include previous participation in research related to emergency medicine or another field, peer-reviewed publications, or presentations of original research at scientific meetings. The successful candidate will also have demonstrated commitment to teaching and/or have evidence of leadership potential. The fellow must be a member of SAEM during the award period. In summary, leadership and research potential will both be judged and are considered equally important.

American Chemical Society – Multiple Opportunities

- **Arthur C. Cope Award** – Recognizes outstanding achievement in the field of organic chemistry, the significance of which has become apparent within the five years preceding the year in which the award will be considered. || **Amount:** \$150,000 for research in organic chemistry, \$25,000 award, and up to \$2,500 for travel. || **Eligibility:** The award will be granted without regard to age or nationality.
- **Arthur C. Cope Scholar Award** – Recognizes and encourages excellence in organic chemistry. || **Amount:** \$40,000 research grant, \$5,000 award, and up to \$2,500 for travel. || **Eligibility:** Ten Arthur C. Cope Scholars will be named annually: four between the ages of 36 and 49, four age 50 or older, and two 35 and younger before April 30, of the year in which the award is presented. No individual may receive a second Arthur C. Cope Scholar Award. Recipients of an Arthur C. Cope Award are ineligible to be named an Arthur C. Cope Scholar.
- **Award for Encouraging Women into Careers in the Chemical Sciences** – Recognizes significant accomplishments by individuals who have stimulated or fostered the interest of women in chemistry, promoting their professional developments as chemists or chemical engineers. || **Amount:** \$10,000 research grant, \$5,000 award, and up to \$1,500 for travel. || **Eligibility:** Nominees for the award may come from any professional setting: academia, industry, government, or other independent facility. The award is intended to recognize significant accomplishments by individuals in stimulating women to elect careers in the chemical sciences and engineering, and in generating a broader appreciation of chemistry as the central science. The award will be granted without regard to age or nationality.

Deadline: November 1, 2010

Leukemia & Lymphoma Society (LLS) – Specialized Center of Research (SCOR) Program

Description: Established to encourage multidisciplinary research focused on the prevention, diagnosis, or treatment of leukemia, lymphoma or myeloma. The program requires synergy among at least three research programs and these programs may be supported by scientific core laboratories. The program permits an application for a competitive renewal of the SCOR grant after five years depending on the progress shown. The program is organized to encourage the interaction of complementary sciences and the linkage of basic sciences to a translational research program.

Deadline: Letter of intent (required): November 1, 2010 / Full application (by invitation only): March 15, 2011

Amount: \$1.25 million per year for five years.

Eligibility: Applicants must hold an M.D., Ph.D., or equivalent degree, and work in domestic or foreign non-profit organizations, such as universities, colleges, hospitals or laboratories. Applications may involve multiple such institutions. Applicants (Center PI / Director) need not be U.S. citizens, and there are no restrictions on applicant's (Center PI / Director) age, race, gender or creed. Applications from non-academic facilities will not be considered.

[American College of Surgeons – Faculty Research Fellowships](#)

Description: Offers two-year faculty research fellowships to surgeons entering academic careers in surgery or a surgical specialty. The fellowship is to assist a surgeon in the establishment of a new and independent research program, as such, applicants should have demonstrated their potential to work as independent investigators.

Deadline: November 1, 2010

Amount: \$40,000 per year for two years.

Eligibility: The fellowship is open to Fellows or Associate Fellows of the College who have:
(1) completed the chief residency year or accredited fellowship training within the preceding three years; and (2) received a full-time faculty appointment in a department of surgery or a surgical specialty at a medical school accredited by the Liaison Committee on Medical Education in the U.S. or by the Committee for Accreditation of Canadian Medical Schools in Canada. Preference will be given to applicants who directly enter academic surgery following residency or fellowship. A minimum of 50 percent of the Fellow's time must be spent in the research proposed in the application.

[American Dental Education Association \(ADEA\) – William J. Gies Foundation Education Fellowship](#)

Description: Provides funding to support a unique three-month learning experience in Washington, DC. This fellowship is designed to familiarize dental educators with a broad range of timely educational issues facing dental education. While in Washington, DC, the fellow will work with staff in the ADEA Center for Educational Policy and Research on issues such as faculty recruitment, development, and retention; leadership development; teaching strategies; competencies and their assessment; and accreditation and licensure. The fellow's interests and talents will be considered when assigning projects and responsibilities. ADEA will be flexible in the arrangement of time away from the fellow's institution.

Deadline: November 1, 2010

Amount: The fellow receives a stipend of \$10,000 to cover travel and expenses for the cumulative three-month experience in Washington, DC. The fellow's institution continues to provide salary support for the duration of the experience.

Eligibility: Applicants must have had least five years of experience as a dental educator, be a full-time dental educator or administrator at an ADEA Member Institution, and be an ADEA Individual Member.

[Ford Foundation – Fellowship Programs](#)

Description: Through its Fellowship Programs, the Ford Foundation seeks to increase the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students. The following opportunities are available for 2011:

- **Predocctoral Fellowship Program** – Provides three years of support to individuals engaged in graduate study leading to a Ph.D. or Sc.D. degree. || **Deadline:** November 1, 2010 || **Amount:** \$20,000 annual stipend for three years, \$2,000 for the institution, expenses paid to attend at least one Conference of Ford Fellows, and access to Ford Fellow Liaisons (a network of former Ford Fellows who have volunteered to provide mentoring and support to current fellows). || **Eligibility:** Applicants must be U.S. citizens or nationals, have evidence of superior academic achievement, be committed to a career in teaching and research at the college or university level; be enrolled in (or plan to enroll in) an eligible research-based program leading to a Ph.D. or Sc.D. degree at a U.S. educational institution, must require a minimum of three years of study to complete their Ph.D./Sc.D. degree as of the Fall 2011 semester, and must not have earned a doctoral degree at any time, in any field.
- **Dissertation Program** – Provides one year of support for individuals working to complete a dissertation leading to a Ph.D. or Sc.D. degree. || **Deadline:** November 8, 2010 || **Amount:** One-year stipend of \$21,000, expenses paid to attend one Conference of Ford Fellows, and access to

Ford Fellows Liaisons (a network of former Ford Fellows who have volunteered to provide mentoring and support to current fellows). || **Eligibility:** Applicants must be U.S. citizens or nationals, have evidence of superior academic achievement, be committed to a career in teaching and research at the college or university level; be Ph.D. or Sc.D. degree candidates studying in an eligible research-based discipline at the U.S. educational institution, and must not have earned a doctoral degree at any time in any field.

- **Postdoctoral Program** – Provides one year of support for individuals engaged in postdoctoral study after the attainment of the Ph.D. or Sc.D. degree. || **Deadline:** November 8, 2010 || **Amount:** One-year stipend of \$40,000, \$1,500 for the institution, expenses paid to attend at least one Conference of Ford Fellows, and access to Ford Fellow Liaisons (a network of former Ford Fellows who have volunteered to provide mentoring and support to current fellows). || **Eligibility:** Applicants must be U.S. citizens or nationals, have evidence of superior academic achievement, be committed to a career in teaching and research at the college or university level; and have been awarded a Ph.D. or Sc.D. no earlier than November 30, 2003, and no later than November 8, 2010 in a eligible research-based field from a U.S. educational institution.

Deadline: November 1, 2010 and November 8, 2010. Varies by opportunity – See above.

Amount: Varies – See above and full announcements.

Eligibility: Varies – See above and full announcements.

[American Foundation for Suicide Prevention \(AFSP\) – Multiple Opportunities](#)

Description: AFSP research grants support studies that aim to increase understanding of the causes of suicide and factors related to suicide risk, or to test treatments and other interventions designed to prevent suicide. The following awards are available:

- **Distinguished Investigator Grants** – Awards of up to \$100,000 over two years are awarded to investigators at the level of associate professor or higher with an established record of research and publication on suicide.
- **Standard Research Grants** – Provides up to \$75,000 over two years for individual investigators at any level.
- **Linked Standard Research Grants** – For three or more sites of up to \$225,000 over two years are awarded to investigators at any level.
- **Young Investigator Grants** – Up to \$85,000 over two years is awarded to investigators at the level of assistant professor or lower. In addition to a maximum of \$75,000 for the investigator's research, these grants provide an additional \$10,000 (\$5,000 per year) for an established suicide researcher who will mentor the Young Investigator.
- **Postdoctoral Research Fellowships** – Up to \$100,000 over two years is awarded to investigators who have received a Ph.D., M.D., or other doctoral degree within the preceding six years and have not had more than three years of fellowship support. Fellows receive a progressive stipend of \$42,000 in the first year and \$46,000 in the second, with an institutional allowance of \$6,000 per year.
- **Pilot Grants** – Provides up to \$30,000 over one or two years to investigators at any level. These grants provide seed money for new projects that have the potential to lead subsequent larger investigations.

Deadline: December 1, 2010

Amount: Varies – See above and full announcement.

Eligibility: Investigators from all academic disciplines are eligible to apply, and both basic science and applied research projects will be considered, providing the study has an essential focus on suicide or suicide prevention. Some opportunities have special eligibility requirements. See full announcement for details.

[McKnight Foundation – Scholar Awards](#)

Description: Supports innovative research designed to bring science closer to the day when diseases of the brain and behavior can be accurately diagnosed, prevented, and treated. These awards were established to encourage emerging neuroscientists to focus on disorders of learning and memory. Applicants for the McKnight Scholar Awards must demonstrate interest in solving important problems in relevant areas of neuroscience, including the translation of basic research to clinical neuroscience. Awards are given to exceptional young scientists who hold the M.D. and/or Ph.D. degree and who are in the early stages of establishing an independent laboratory and research career. Traditionally, successful

candidates have held faculty positions for at least one year.

Deadline: January 10, 2011

Amount: \$75,000 per year for three years.

Eligibility: Applicants must be tenure-track junior faculty with an MD or PhD degree. They must have a no more than four years of experience in an independent/tenure-track faculty position (exceptions may be made to account for parental leave); evidence of a commitment to a career in neuroscience; U.S. citizenship or permanent resident status; and a U.S.-based sponsoring institution, to which awards will be paid.

NIH Federal Opportunities

NEW NIH FORMATTING REQUIREMENTS ARE NOW IN EFFECT: A new version of the [application forms and instructions](#) are available. The new form and instructions must be used to apply for receipt dates on January 25, 2010 and beyond. You must continue to check the opportunity to which you are applying to download the application forms and instructions for opportunities due on or after January 25th, 2010. For more information on how the application is being restructured, please visit http://enhancing-peer-review.nih.gov/restructured_applications.html.

[National Institute on Aging \(NIA\) – Revision Requests for Active Program Projects \(P01\)](#)

Description: The NIA invites Revision applications (formerly called competing supplements) to ongoing NIA-supported Program Projects (P01) in order to expand the scope of the existing award. Revision applications should include expansion of (an) existing, or proposal of (a) new subproject or projects. Revision applications may not request support beyond the project end date of the Parent P01 award.

Deadline: October 20, 2010, then standard dates apply.

Amount: Varies – See full announcement.

Eligibility: Eligibility is limited to applications from currently active, NIA-funded Program projects (P01) with at least one year of non-competing renewal support remaining at the time of submission.

[Pilot and Feasibility Clinical Research Grants in Arthritis and Musculoskeletal and Skin Diseases \(R21\)](#)

Description: Issued by National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) to encourage exploratory/developmental clinical research related to the prevention or treatment of arthritis and musculoskeletal and skin diseases, conditions, and/or injuries. The Pilot and Feasibility Clinical Research Grants Program is designed to allow initiation of exploratory, short-term clinical studies, so that new ideas may be investigated without stringent requirements for preliminary data. The short-term studies should focus on research questions that are likely to gather critical preliminary data in support of a future, planned clinical trial. They can include testing new or prevention strategies, a new intervention, or unique combinations of therapies. A high priority is the use of such studies to help stimulate the translation of promising research developments from the laboratory into clinical practice.

Deadline: Nov 18, 2010, March 1, 2011, July 1, 2011; Nov 1, 2011, March 1, 2012, July 2, 2012; Nov 1, 2012, March 1, 2013, July 1, 2013

Amount: Direct costs are limited to \$275,000 over an R21 two-year period, with no more than \$200,000 in direct costs allowed in any single year.

[Assay Development for High Throughput Screening for Nicotinic Receptor Subunits \(R21\)](#)

Description: The National Institute on Drug Abuse (NIDA) requests applications that propose to develop biological assays that will facilitate the discovery of new molecular probes for investigating the biological function of neuronal nicotinic acetylcholine receptors (nAChRs). Membrane-spanning subunits (alpha and beta) aggregate in pentamers to form various combinations of functional nAChR ion channels. Genetic association studies have implicated variants in the $\alpha 5$ - $\alpha 3$ - $\beta 4$ cholinergic nicotinic receptor subunit gene cluster on chromosome 15q24-25.1 for the risk of nicotine addiction, tobacco dependence, smoking, and lung cancer. Other studies have implicated the $\alpha 6$ -subunit in nicotine addiction. This opportunity seeks applications proposing to develop biological assays for constitutive receptor combinations involving $\alpha 3$, $\alpha 5$, $\alpha 6$, and/or $\beta 4$ subunits, suitable ultimately for configuration as high throughput screening (HTS) assays. Once developed, these HTS-ready assays can, and will be expected to be, submitted for screening (<http://grants.nih.gov/grants/guide/notice-files/NOT-RM-09-011.html>) by the NIH Molecular Libraries Production Centers Network (MLPCN) to identify biologically active compounds in a large library

of small molecule chemical structures. The chemical structures uncovered through development and use of these assays could then be used for selective ligand development and as possible lead molecules to guide drug discovery in the development of tobacco smoking cessation medications.

Deadline: January 18, 2011

Amount: Up to \$150,000 for one year.

Core Infrastructure and Methodological Research for Cancer Epidemiology Cohorts (U01)

Description: Issued by the National Cancer Institute (NCI) to provide targeted infrastructure support for the core functions of Cancer Epidemiology Cohorts (CECs) and methodological research. This infrastructure can support existing or new CECs. This opportunity will support core functions for CECs currently funded through other grant mechanisms by the Epidemiology and Genetics Program (EGRP) and other components of the Division of Cancer Control and Population Sciences (DCCPS) at the National Cancer Institute (NCI).

Deadline: March 8, 2011, July 6, 2011, November 10, 2011, March 6, 2012, July 6, 2012, November 8, 2012, March 8, 2013, July 10, 2013, November 8, 2013

Amount: Varies – See full announcement.

Eligibility: Applicants may submit more than one application, provided that each application is scientifically distinct (i.e., pertains to a different cohort).

Type I Diabetes Impact Award (DP3)

Description: Issued by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) for applications proposing groundbreaking original research addressing fundamental questions or major obstacles in Type 1 Diabetes Research, including studies that challenge current dogma. Projects must clearly address a compelling unanswered question in Type 1 Diabetes research.

Deadline: March 11, 2011

Amount: \$2 to \$5 million total over a five-year period.

National Heart, Lung, and Blood Institute (NHLBI) Program Project Applications (P01)

Description: This opportunity continues the long standing program project program detailed at <http://www.nhlbi.nih.gov/funding/resmech.htm> and invites submission of investigator-initiated Program Project (P01) applications. The proposed programs may address scientific areas relevant to the NHLBI mission including the biology and diseases of the heart, blood vessels, lung, and blood; blood resources; and sleep disorders. Each P01 application submitted in response to this opportunity must include at least three related research projects that share a common central theme, focus, and/or overall objective.

Deadline: Standard dates apply – See full announcement.

Amount: Varies – See full announcement.

Eligibility: More than one PD/PI, or multiple PDs/Pis, may not be designated on the application or the overall program.

Non-NIH Federal Opportunities

National Science Foundation (NSF) – Alan T. Waterman Award

Description: The Alan T. Waterman Award is the highest honor awarded by the National Science Foundation. It is bestowed upon young scientists who have demonstrated exceptional individual achievement in scientific or engineering research of sufficient quality to place them at the forefront of their careers.

Deadline: October 30, 2010

Amount: \$500,000 total over a three-year period for scientific research or advanced study in the mathematical, physical, biological, engineering, social or other sciences at the institution of the recipient's choice.

Eligibility: Candidates must be U.S. citizens or permanent residents, 35 years of age or younger, or not more than seven years beyond the receipt of their Ph.D. degree by December 31 of the year in which they are nominated. Candidates should have demonstrated exceptional individual achievements in scientific or engineering research of sufficient quality to place them at the forefront of their peers. Criteria include originality, innovation, and significant impact on their field.

National Science Foundation (NSF) - Ecology of Infectious Diseases (EID)

Description: Supports the development of predictive models and the discovery of principles governing the transmission dynamics of infectious disease agents. To that end, research proposals should focus on understanding the ecological, evolutionary and socio-ecological determinants of transmission by vectors or abiotic agents; the population dynamics and genetics of reservoir species; the transmission to humans, other non-human animals or plants; or the cultural, social, behavioral, and economic dimensions of disease communication. Research may be on zoonotic, vector-borne or enteric diseases of either terrestrial, freshwater, or marine systems and organisms, including diseases of non-human animals and plants, at any scale from specific pathogens to inclusive environmental systems. Diseases affecting humans must have an environmental transmission component; research on solely human-to-human transmitted disease systems are not eligible for EID support. Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of agricultural concern. Investigators are encouraged to include links to the public health research community, including for example, participation of epidemiologists, physicians, veterinarians, social scientists, medical entomologists, pathologists, virologists, or parasitologists.

Deadline: December 15, 2010

Amount: Up to \$2.5 million total for up to a five-year period.

National Science Foundation (NSF) – Promoting Research and Innovation in Methodologies for Evaluation (PRIME)

Description: Supports research on evaluation with special emphasis on exploring innovative new approaches for determining the impacts and usefulness of evaluations of science, technology, engineering, and mathematics (STEM) education projects and programs; building on and expanding the theoretical foundations for evaluating STEM education and workforce development initiatives, including translating and adapting approaches from other fields; and growing the capacity and infrastructure of the evaluation field. Two types of proposals will be supported by the program: Exploratory Projects that include proof-of-concept and feasibility studies and more extensive Full-Scale Projects.

Deadline: January 5, 2011

Amount: Exploratory projects cannot exceed \$250,000 total and a duration of two years. Full-scale projects cannot exceed \$800,000 total and a duration of three years.

National Science Foundation (NSF) – Transforming Science, Technology, Engineering and Mathematics (STEM) Learning (TSL)

Description: The TSL program invites interdisciplinary teams of STEM content specialists, experts in relevant technologies, STEM formal and informal education specialists, researchers with expertise in the learning sciences, and specialists in education research and evaluation methods to submit proposals for research projects that (1) study efficacy of existing prototypes for innovations like virtual schools, special STEM schools, and educational programs that combine opportunities of formal and informal learning resources in their communities; or (2) design and conduct exploratory development of new potentially transformative models for STEM learning environments. The cross-cutting proposals will draw from work in the four primary programs: Discovery Research K-12 (DR K-12), Informal Science Education (ISE), Research and Evaluation on Education in Science and Engineering (REESE), and Innovative Technology Experiences for Students and Teachers (ITEST). However, proposals submitted in response to this solicitation must have a scope that extends well beyond any of those programs individually.

Deadline: March 11, 2011; March 9, 2012

Amount: Research projects may ask for up to \$2 million for a project duration of up to four years; planning and pilot development projects may ask for up to \$500,000 for a project duration up to two years.

Eligibility: Standard NSF eligibility requirements apply.