

Lewis-Burke Associates LLC

Federal Programs Providing Support for International Collaborations

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Government Relations for Research & Education

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Overview

This report contains information on federal government programs and initiatives that provide support for international collaboration through research and education. Please note that most of the opportunities included in this report are directed towards U.S. institutions and individuals. The programs and initiatives described help strengthen U.S. research capabilities and allow for international collaborations, but will not directly fund a foreign institution or researcher.

The federal government programs listed below are organized by the agency that runs the program. For each opportunity, there is provided a program summary, eligibility requirements, size of the program, approximate size and type of award, due dates, and other special factors. The program websites are provided as a source for more detailed information. This is not an exhaustive list and Lewis-Burke is happy to provide additional information as requested.

Department of Education

The Department of Education funds higher education international initiatives through International and Foreign Language Education (IFLE)¹ programs in the Office of Postsecondary Education. These programs include both domestic and overseas programs. Domestic programs are designed to strengthen the capability and performance of American education in foreign languages and in international studies. Overseas programs are intended to improve secondary and postsecondary teaching and research concerning other cultures and languages, training of specialists, and the American public's general understanding of the peoples of other countries. Details of funding opportunities to support international collaboration are given below, and a full list of international programs is available at <http://www2.ed.gov/about/offices/list/oie/iegps/index.html#programs>.

National Resource Centers (NRC) Program

- Overview: The NRC program is an interdisciplinary program to establish and operate language and area or international studies centers at U.S. institutions of higher education that will serve as national resources for teaching modern foreign languages. NRCs will also teach full “understanding of areas, regions, or countries in which the language is commonly used; research and training in international studies; language aspects of professional and other fields of study; and instruction and research on issue in world affairs.”
- Eligibility: U.S. institutions of higher education or consortia of institutions of higher education are eligible to apply.
- Award/Program Size: In FY 2012, \$18 million was available for this program to support 127 awards with an average award size of \$142,116. It is worth noting that the program budget in FY 2010 was \$33.99 million.
- Due Date: This program is in year three of a four-year grant cycle. The next competition for new grant awards will be FY 2014, pending available funds. The last competition was in FY 2010 with a March deadline.

Source: <http://www2.ed.gov/programs/iegpsnrc/index.html>

American Overseas Research Centers

- Overview: The American Overseas Research Centers program seeks to establish or operate overseas research centers that promote postgraduate research, exchanges, and area studies, and are focused on a specific nation or region. Most of the centers include a historical or archaeological component.
- Eligibility: U.S. institutions of higher education or consortia of institutions of higher education are eligible to apply.
- Award/Program Size: In FY 2012, \$650,000 was available for this program to support 10 new awards.
- Due Date: The last competition was in FY 2012, and the next competition is anticipated to be in FY 2016.

Source: <http://www2.ed.gov/programs/iegpsaorc/index.html>

¹ <http://www2.ed.gov/about/offices/list/oie/iegps/index.html>

Technological Innovation and Cooperation for Foreign Information Access

- Overview: This program is to support projects at U.S. institutions of higher education, often in collaboration with a foreign institution, to develop innovative techniques or programs that address national teaching and research needs in international education and foreign languages by using technologies to access, collect, organize, preserve, and widely disseminate information on world regions and countries.
- Eligibility: U.S. institutions of higher education, public or nonprofit private libraries, or consortia of these institutions are eligible to apply.
- Award/Program Size: In FY 2010, \$2.1 million was available for this program to support 13 awards with an average award size of \$162,167.
- Due Date: Competitions are held every four years with the last competition held in FY 2009.

Source: <http://www2.ed.gov/programs/iegpsticfia/index.html>

Foreign Language and Area Studies (FLAS) Fellowships Program

- Overview: This program provides academic year and summer fellowships to institutions of higher education to assist exemplary undergraduate students and graduate students undergoing training in modern foreign languages and related area or international studies.
- Eligibility: U.S. institutions of higher education are eligible to apply. Institutions conduct competitions to select eligible undergraduate students and graduate students to receive fellowships. Students are eligible for fellowships if they are citizens, nationals, or permanent residents of the U.S.
- Award/Program Size: FLAS grants are awarded to institutions for a four-year project period. In FY 2012 the average award was \$280,000 with a total of 126 continuation awards made.
- Due Date: The next competition will be held in FY 2014 pending available funds.

Source: <http://www2.ed.gov/programs/iegpsflasf/index.html>

Fulbright-Hays Doctoral Dissertation Research Abroad

- Overview: This program provides grants to colleges and universities to fund individual doctoral students who conduct research in other countries in modern foreign languages and area studies for periods of six to 12 months.
- Eligibility: U.S. institutions of higher education are eligible to apply. Graduate students in doctoral programs in the fields of foreign languages and area studies must apply through the institutions in which they are enrolled. Students are eligible to receive a fellowship if they are citizens, nationals, or permanent residents of the U.S.
- Award/Program Size: In FY 2012, 84 new fellowships totaling \$3.2 million were awarded. The average fellowship award was around \$38,000.
- Due Date: Competitions are held annually. The application deadline for the last competition was June 14, 2012.
- Special Attention: Eligible students must be planning a teaching career in the U.S. upon graduation.

Source: <http://www2.ed.gov/programs/iegpsddrap/index.html>

Fulbright-Hays Faculty Research Abroad Fellowship Program

- Overview: This fellowship program provides grants to colleges and universities to fund faculty to conduct research abroad “in modern foreign languages and area studies to improve their skill in languages and their knowledge of the culture of the people of these countries.” Funding is available to support fellowships abroad for periods of 3 to 12 months.
- Eligibility: U.S. institutions of higher education are eligible to apply. Faculty are eligible to receive a fellowship if they are citizens, nationals, or permanent residents of the U.S.
- Award/Program Size: In FY 2010, 18 new fellowships to 15 institutions were awarded with an average award size of \$77,925. Total funding of \$1.4 million was available.
- Due Date: It is uncertain when the next competition will be held.

Source: <http://www2.ed.gov/programs/iegpsfra/index.html>

Fulbright-Hays Group Projects Abroad Program

- Overview: This program provides grants that support foreign projects in “training, research, and curriculum development in modern foreign languages and area studies for teachers, students, and faculty engaged in a common endeavor.” Four type of projects are supported through this program:
 - Short-Term Seminar Project – To promote the integration of international studies into social sciences and humanities curricula throughout the U.S. school system; to increase language/cultural competency; and to focus on a particular aspect or area study.
 - Curriculum Development Project – To get material for curriculum development in modern foreign language and area studies; and to use and disseminate new knowledge and techniques across the U.S.
 - Group Research or Study Project – For a group of at least three participants to undertake research or study outside of the U.S. for a minimum of 12 weeks in humanities, social sciences, foreign languages, and/or area studies.
 - Advanced Overseas Intensive Language Training Project – To undertake advanced indigenous language training that is not available in the U.S.
- Eligibility: All participants must be U.S. citizens, nationals, or permanent residents and employed or studying full-time. For full eligibility information, see <http://www2.ed.gov/programs/iegpsgpa/projecttypes.html>.
- Award/Program Size: In FY 2012, \$2.99 million was available to support this program (note that this was significantly lower than previous years: \$4.87 million in FY 2011 and \$5.5 million in FY 2010). Project size for the various programs are:
 - Short-Term Seminar Project – Maximum grant award is \$125,000
 - Curriculum Development Project – Maximum grant award is \$125,000
 - Group Research or Study Project – Maximum grant award is \$125,000
 - Advanced Overseas intensive Language Training Project – Maximum grant award is \$375,000

- Due Date: For short-term seminars, curriculum development teams, and group research or study projects, competitions are held annually. For advanced overseas intensive language projects, competitions are every four years; the next competition is due to be held in FY 2016. More detailed information on due dates is available at <http://www2.ed.gov/programs/iegpsgpa/applicant.html>.

Source: <http://www2.ed.gov/programs/iegpsgpa/index.html>

Fulbright-Hays Seminars Abroad – Bilateral Projects

- Overview: This program provides “short-term study and travel seminars abroad for U.S. educators in the social sciences and humanities for the purpose of improving their understanding and knowledge of the peoples and cultures of other countries.” There are typically seven to ten seminars per year, each with 14-16 participants.
- Eligibility: Eligible participants include elementary school teachers, middle or high school educators, administrators or curriculum specialists, librarians, museum educators or media or resource specialists in the fields of social sciences, humanities, including languages, as well as faculty or administrators from public or private, two- or four-year institutions of higher education whose discipline is related to social sciences, humanities, languages, and/or area studies.
- Award/Program Size: In FY 2012, \$850,000 was available to support three new awards.
- Due Date: Competitions are held annually, and the latest deadline was December 10, 2012.

Source: <http://www2.ed.gov/programs/iegpssap/index.html>

Department of Energy

The Office of Policy and International Affairs (PI) oversees international research and outreach programs at the Department of Energy (DOE). DOE generally supports large international collaborations that are developed through a high level, formal process, and tend to be politically driven. Examples include the U.S.-China Clean Energy Research Center and the Joint Clean Energy Research and Development Center, which attempt to engage foreign partners in clean energy research.

According to the DOE strategic plan published in May 2011:

“Because the greatest energy challenges are global in nature, the Department will foster international partnerships to advance our common goals for developing and deploying clean energy technologies and addressing climate change, energy security, and energy scarcity...U.S. leadership through the Department can help promote clean energy technologies around the world. Other countries can have greater demand, pace, risk and/or tolerance in energy innovation. International partnerships could offer more diverse projects to increase learning rates, promote the global adoption of clean energy technologies, and perhaps ease foreign market entry for U.S. firms. However, intellectual property and competitiveness issues will be carefully managed.”

There are limited programs that exclusively support researcher-to-researcher collaborations. International collaboration can often be more easily facilitated through the DOE National Laboratories. Researchers interested in developing international collaborations are advised to contact the relevant DOE country program officer² to explore opportunities.

Office of Policy and International Affairs (PI)

Overview: PI at DOE manages policy and strategy development for international collaboration across DOE. DOE has a number of longstanding international cooperative agreements with foreign governments and international organizations. Across the entire DOE remit, there are currently over 100 active agreements with over 70 countries. These agreements come in various formats and can either be legal or informal. These agreements are required by DOE to enable activities such as data sharing, research collaboration and development of new projects, sharing scientific expertise, methodologies, and facilities. These agreements do not necessarily have funding associated with them. A searchable list of current and active commitments is available at <http://energy.gov/pi/iec-documents>. PI provides expertise on international activities for all of DOE. A list of experts for each country is available at <http://energy.gov/sites/prod/files/2012ExpertListingMASTERCOPY.pdf>.

Selected examples of DOE PI initiatives:

- **Energy and Climate Partnership of the Americas**
<http://energy.gov/pi/office-policy-and-international-affairs/initiatives/energy-and-climate-partnership-americas>

² <http://energy.gov/sites/prod/files/2012ExpertListingMASTERCOPY.pdf>

- **Clean Energy Ministerial**
<http://energy.gov/pi/office-policy-and-international-affairs/initiatives/clean-energy-ministerial>
- **Critical Materials Strategy**
<http://energy.gov/pi/office-policy-and-international-affairs/initiatives/department-energy-s-critical-materials>
- **US-Canada Clean Energy Dialogue (CED)**
<http://energy.gov/pi/office-policy-and-international-affairs/initiatives/us-canada-clean-energy-dialogue-ced>

Source: <http://energy.gov/pi/office-policy-and-international-affairs>

Office of Energy Efficiency and Renewable Energy (EERE) International Program

Overview: The International Program at EERE supports international collaboration to “advance energy efficiency and renewable energy portfolio-wide technologies and to develop market opportunities for American companies.” EERE carries out a number of activities in different global regions in coordination with other DOE offices. However, there are no specific programs to support investigator driven research. For more information, see http://www1.eere.energy.gov/office_eere/int_mou.html.

Selected examples of DOE EERS international initiatives:

- **International Partnership for Energy Efficiency Cooperation (IPEEC) (multinational)**
http://www1.eere.energy.gov/office_eere/int_multinational.html#ipeec
- **U.S. – European Union Energy Council**
http://www1.eere.energy.gov/office_eere/int_europe.html
- **U.S.-China Strategic and Economic Dialogue (S&ED)**
http://www1.eere.energy.gov/office_eere/int_asia_pacific.html
- **Energy and Climate Partnership for the Americas (ECPA)**
http://www1.eere.energy.gov/office_eere/int_americas.html
- **Bi-national Industrial Research and Development (BIRD) Foundation (with Israel)**
http://www1.eere.energy.gov/office_eere/int_middle_east.html
- **Energy Efficiency Activities (with Kazakhstan)**
http://www1.eere.energy.gov/office_eere/int_russia.html

Source: http://www1.eere.energy.gov/office_eere/int_main.html

Department of Health and Human Services

The Department of Health and Human Services (HHS) has also expanded its focus on international activities under the Obama Administration. The Office of Global Health Affairs is the lead policy office for HHS global health initiatives, and currently serves predominantly a coordinating and informational role. Additional information about specific programs and partnerships administered by the office is available at: <http://globalhealth.gov/initiatives/index.html>.

The lead agency for research in HHS is the National Institutes of Health (NIH), though the Centers for Disease Control and Prevention (CDC) have a major role in disease detection and surveillance.

National Institutes of Health (NIH)

Fogarty International Center (FIC)

- **Overview:** International efforts at the National Institutes of Health (NIH) are coordinated by the Fogarty International Center (FIC) which is dedicated to advancing the mission of NIH by supporting and facilitating global health research, building international partnerships, and training the next generation of scientists to address global health needs. Most active FIC awards support collaboration between U.S. institutions and low-and middle-income countries (LMIC) to develop research and training in scientific areas particularly relevant to global health. FIC also supports fellowship and scholarship awards that provide career development opportunities to individual scientists.
- **Eligibility:** Eligibility requirements vary by program, but most awards are open to U.S. institutions with a demonstrated collaboration with LMIC institutions. Some of the larger FIC funding competitions are limited, requiring applicants to first apply and receive a R21 planning grant before they are permitted to apply for the companion R01. U.S. citizens are eligible for most of the FIC fellowship and scholarship programs that support individual researchers.
- **Award/Program Size:** FIC was appropriated about \$70 million in FY 2012 and the center traditionally leverages its funding by releasing a number of solicitations in conjunction with other NIH institutes and centers.
- **Due Date:** Due dates vary by program. See individual funding opportunity announcements for specific details.

Selected examples of currently open FIC research and training awards:

- **Brain Disorders in the Developing World: Research Across the Lifespan (BRAIN)**
<http://www.fic.nih.gov/Programs/Pages/brain-disorders.aspx>
- **Chronic, Non-Communicable Diseases and Disorders Across the Lifespan: Fogarty International Research Training Award (NCD-LIFESPAN)**
<http://www.fic.nih.gov/Programs/Pages/chronic-lifespan.aspx>
- **Global Infectious Disease Research Training Program (GID)**
<http://www.fic.nih.gov/Programs/Pages/infectious-disease.aspx>
- **International Research Scientist Development Award (IRSDA)**

<http://www.fic.nih.gov/Programs/Pages/research-scientists.aspx>

Source: <http://www.fic.nih.gov/Programs/Pages/default.aspx>

NIH-NSF Ecology and Evolution of Infectious Diseases (EEID) Program

- Overview: As a collaboration between FIC and the National Institute of General Medical Sciences (NIGMS) at NIH, the National Science Foundation (NSF), and the U.S. Department of Agriculture (USDA), the EEID program supports “multidisciplinary teams in the development of predictive models and the discovery of principles governing the transmission dynamics of infectious disease agents to humans and other hosts. The EEID program scope has broadened to incorporate more socio-ecology, pathogen evolution, and translational research in the overall context of the ecology of disease transmission.”
- Eligibility: Applications from U.S. and foreign institutions are eligible. Application submission and peer review is through NSF, but likely NIH awardees will be asked to reformat their applications for NIH processing. Potential applicants are “strongly encouraged to contact NIH or NSF program officials prior to submitting an application.”
- Award/Program Size: Beginning in FY 2013, EEID projects are required to have budgets of \$1 million or more. In FY 2013, a total of \$12 million is expected to be available for eight awards. Of the \$12 million, \$4 million will be supplied by NSF for new standard or continuing awards, \$5 million will be contributed by NIH for new awards, and \$3 million will be provided for new awards from USDA.
- Due Date: The most recent deadline for the FY 2013 awards was December 5, 2012. An additional deadline in the 2013 calendar year is currently unknown.

Sources: <http://www.fic.nih.gov/Programs/Pages/ecology-infectious-diseases.aspx> and <http://grants.nih.gov/grants/guide/notice-files/NOT-TW-12-022.html> (NIH) http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5269&org=DEB&from=home and <http://www.nsf.gov/pubs/2012/nsf12587/nsf12587.htm> (NSF)

NIH-USAID Partnerships for Enhanced Engagement in Research (PEER) Health Program

- Overview: Managed by the U.S. National Academies Division of Policy and Global Affairs, the Partnerships for Enhanced Engagement in Research (PEER) Health Program is a joint initiative between NIH and the U.S. Agency for International Development (USAID). PEER Health is “a competitive grants program that supports scientists from 24 eligible countries who are collaborating with NIH-supported researchers to develop and advance implementation science projects reflecting the health priorities of eligible countries, USAID missions, and governments.” This includes the “application of systematic learning, research, and evaluation to improve health practice, policy, and programs.” The two focus areas of the current solicitation are Child Survival and Priority Health Topics in Indonesia.
- Eligibility: Applicants to the PEER Health Program must be “citizens of an eligible country affiliated with and permanently based at an academic or government-managed research or healthcare institution in a developing country included on the PEER Health eligible country list. Those who apply must either be actively engaged or plan to be engaged with an intramural or extramural NIH

researcher on their PEER Health project.” Detailed eligibility requirements are available at http://sites.nationalacademies.org/PGA/dsc/peerhealth/PGA_080492.

- Award/Program Size: Budget requests may be up to \$150,000 per year for up to three years.
- Due Date: PEER Health applications are accepted in a two-stage process. In 2012, pre-proposals were accepted between June 29 and October 26. Based on these pre-proposals, applicants were invited in November to submit full proposals, which were due by January 18, 2013.

Source: http://sites.nationalacademies.org/PGA/dsc/peerhealth/PGA_080497

National Institute on Drug Abuse (NIDA) International Program

- Overview: International research supported by NIDA is primarily funded through domestic grants with foreign components, meaning a principal investigator from a U.S. institution would collaborate with a researcher at a foreign institution. The NIDA International Program is soliciting proposals for **International Research Collaboration on Drug Abuse and Addiction Research** to support projects that take advantage of “special opportunities outside of the U.S.,” including “access to unusual talent, resources, populations, or environmental conditions” that could advance scientific discovery. Priorities are expected to change slightly from year to year, but focus areas listed in the most recent solicitation are: “linkages between HIV/AIDS and drug abuse, and prevention, initiation, and treatment of nicotine and tobacco use,” especially in vulnerable populations.
- Eligibility: Applications from U.S. and foreign institutions are eligible. Research projects should be conducted in whole or in part outside the U.S. by investigators at U.S. institutions in partnership with investigators from other countries.
- Award/Program Size: Award sizes vary between R01, R21, and R03 funding mechanisms. Application budgets for the R01 are not limited. For the R21, direct costs are limited to \$275,000 over a two-year period, but no more than \$200,000 in direct costs is permitted per year. For the R03, direct costs are limited to \$100,000 over a two-year project period, with no more than \$50,000 in direct costs allowed per year.
- Due Date: Applications are due in three annual cycles with due dates in February, June, and October.

Sources: <http://international.drugabuse.gov/research-funding> and <http://international.drugabuse.gov/research-funding/funding-sources/nida-international-program-announcements>

R01: <http://grants.nih.gov/grants/guide/pa-files/PA-12-040.html>

R21: <http://grants.nih.gov/grants/guide/pa-files/PA-12-041.html>

R03: <http://grants.nih.gov/grants/guide/pa-files/PA-12-042.html>

National Institute on Alcohol Abuse and Alcoholism (NIAAA) International Program

- Overview: NIAAA promotes international research by funding collaborations between alcohol research investigators at U.S. institutions with those at foreign institutions. The research topics supported “cover the full spectrum of alcohol research from basic science to clinical, public health, and health services research, including HIV/AIDS.” NIAAA’s current **International Research Collaboration on Alcohol and Alcoholism (U01)** solicitation will provide funds for collaborative

research activities undertaken jointly by U.S. and non-U.S. laboratories in order to expand the research capabilities of both countries.

- Eligibility: Applications from U.S. and foreign institutions are eligible.
- Award/Program Size: Applicants may request up to \$250,000 in direct costs per year for a maximum award project period of five years.
- Due Date: Applications are due in three annual cycles with due dates of February 5, June 5, and October 5.

Sources: <http://www.niaaa.nih.gov/grant-funding/funding-opportunities/international> and <http://grants.nih.gov/grants/guide/pa-files/par-11-282.html>

National Institute on Minority Health and Health Disparities (NIMHD) Minority Health and Health Disparities International Research Training (MHIRT) Program

- Overview: The NIMHD Minority Health and Health Disparities International Research Training (MHIRT) awards support programs at U.S. institutions that “offer short-term international training opportunities in health disparities research for undergraduate and graduate students in the health professions.” Participating students should be from health disparity populations and/or underrepresented groups. MHIRT program trainees “conduct research for at least 10-12 weeks during the summer or one semester during the academic year,” and they “travel to work with international investigators in countries around the world.”
- Eligibility: Domestic, non-profit, private or public institutions may apply. Trainees in the program should be “individuals from a group underrepresented in biomedical, behavioral, clinical and social sciences. This includes members of racial and ethnic groups that have been identified by the National Science Foundation to be underrepresented in biomedical research (including Blacks and African Americans, Hispanic Americans or Latinos, American Indians and Alaska Natives, Native Hawaiians and other Pacific Islanders),” as well as rural and low socio-economic groups.
- Award/Program Size: Application budgets may request no more than \$250,000 in direct costs per year. In FY 2014, NIMHD intends to commit a total of \$5 million.
- Due Date: Letters of intent for the current solicitation are due by February 20, 2013, and the application due date is March 20, 2013.

Sources: http://www.nimhd.nih.gov/our_programs/mhirt.asp and <http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-13-002.html>

Centers for Disease Control and Prevention

National Institute for Occupational Safety and Health (NIOSH) Global Environmental and Occupational Health (GEOHealth) Program

- Overview: The GEOHealth Program is co-sponsored by NIOSH and the Fogarty International Center and National Institute of Environmental Health Sciences at NIH. The program supports “paired consortium led by a low- or middle-income country (LMIC) institution and a U.S. institution to plan research, research training, and curriculum development activities that address and inform priority national and regional environmental and occupational health policy issues.” GEOHealth has initially

focused on the planning activities for multidisciplinary GEOHealth Hubs, which will lead “collaborative research and training for focal environmental and occupational health issues in several core science areas, including fields such as epidemiology, biostatistics, genetics, environmental science, industrial hygiene, systems science, toxicology, behavioral science, and implementation science.”

- **Eligibility:** To apply, an LMIC institution must partner with a U.S. institution to form a bi-national paired consortium. Pairs are required to submit two separate but linked applications. Each of the partner’s applications should include a separate budget reflecting the specific requirements of the individual institution.
- **Award/Program Size:** It is anticipated that there will be an upcoming opportunity “to compete for full grants to realize the results of GEOHealth Hubs planning efforts, with awards in 2014.”
- **Due Date:** The GEOHealth Hubs planning grant applications were due in 2012, and upcoming announcements are currently unknown.

Sources: <http://www.cdc.gov/niosh/oep/global.html> and <http://www.fic.nih.gov/Programs/Pages/environmental-occupational.aspx>

Department of State

The U.S. Department of State offers funding opportunities for education and exchange programs through its Bureau of Educational and Cultural Affairs (ECA). While the Obama Administration has been supportive of educational and cultural exchange programs and touted their ability to foster international relationships, in recent years, funding for ECA has been reduced significantly. Funded through the same budget function as USAID, educational and cultural exchange programs at the State Department are likely to face continued fiscal challenges going forward. The agency's flagship program is the Fulbright Awards, which support 8,000 new grants annually. In 2011, the Congressional appropriation was \$237.4 million. Foreign governments contributed an additional \$85.2 million in FY 2010 in direct and in-kind support. A number of other smaller exchange programs exist and agency officials are often willing to meet with faculty to discuss their research and its effects on policy development. A searchable database of exchange programs is available at [http://exchanges.state.gov/us/search/solr/?f\[0\]=bundle%3Aexchange_program](http://exchanges.state.gov/us/search/solr/?f[0]=bundle%3Aexchange_program).

In addition to programs for U.S. scholars and educators (outlined below), ECA maintains numerous programs for foreign academics and professionals, many of which involve a residency at a U.S. institution of higher education. Hosting an exchange for an individual or group of foreign scholars can elevate the university's reputation within the Department of State and strengthen its ties to the agency, potentially leading to future funding and partnership opportunities. If interested in hosting foreign faculty participating in Department of State sponsored programs, you should reach out to ECA to highlight university strengths and resources. Additional information is available on the ECA website at <http://exchanges.state.gov/>.

Beyond exchange opportunities, agency officials are often willing to meet with faculty to discuss their research and its effects on policy development. Similar to USAID, meetings should target State Department officials assigned to the country or region in which the faculty member works.

Fulbright U.S. Scholar Program

- Overview: The U.S. Scholar Program sends around 800 U.S. researchers to about 130 countries each year, where they carry out research and/or lecture in a wide range of academic and professional fields. The duration of these awards is between two months and one year. *There is also a Fulbright Visiting Scholar Program to bring foreign scholars to conduct post-doctoral research at U.S. institutions.*³
- Eligibility: The Fulbright U.S. Scholar Program is open to U.S. citizens with a Ph.D. or equivalent.
- Award/Program Size: The Fulbright award stipend depends on the country in which the work will be carried out.
- Due Date: The application process for the 2014-2015 academic year will open in spring 2013; applications are due in October 2013.

Source: <http://exchanges.state.gov/us/program/fulbright-us-scholar-program>

³ <http://exchanges.state.gov/non-us/program/fulbright-visiting-scholar-program>

Fulbright Grants for Graduate Study and Research Abroad

- Overview: This program is an international educational exchange program designed to increase mutual understanding between Americans and people of other countries. The program provides participants, chosen for their academic merit and leadership potential, with the opportunity to study, teach, and conduct research, exchange ideas, and work on shared international concerns. Fulbright projects span every major discipline, and recipients carry out a wide variety of unique projects and activities while on their grant.
- Eligibility: The Fulbright U.S. Student Program offers fellowships for U.S. graduate students to study, conduct research, and/or teach English abroad. The Fulbright Foreign Student Program offers opportunities for foreign graduate students to study, conduct research, and/or teach their native language in the U.S. U.S. applicants (U.S. citizens) apply either through their university or college or at-large to the cooperating agency responsible for the program in which they are interested. Non-U.S. applicants (non-U.S. citizens) apply to either the Fulbright Commission in their country of citizenship or the U.S. Embassy in their country of citizenship (in countries where there is not a Fulbright Commission).
- Award/Program Size: Awards are dependent on location; applicants should contact relevant program officers for more information.
- Due Date: The application process for the 2014-2015 academic year will open on February 1, 2013.

Source: <http://fulbright.state.gov/fulbright/>

Fulbright Regional Network for Applied Research (NEXUS) Program

- Overview: The NEXUS program provides support to establish a network of junior scholars, professionals, and mid-career researchers to participate in a year-long multidisciplinary team project. Up to 20 individuals, including a third from the U.S. and two thirds from other Western Hemisphere countries collaborate in projects on: Science, Technology and Innovation; Entrepreneurship; and Sustainable Energy. The duration of these awards is between six months and one year.
- Eligibility: Applicants must be from Latin America, Canada, the Caribbean or the United States, and must be “rising scholars or practitioners active in the academic, public or private sectors.”
- Award/Program Size: Awards are dependent on location; applicants should contact relevant program officers for more information.
- Due Date: The competition for 2012-2013 is now closed. Information is not currently available on the timing for the next competition.

Source: <http://exchanges.state.gov/us/program/fulbright-regional-network-applied-research-nexus-program>

National Endowment for the Humanities

The National Endowment for the Humanities (NEH) is one of the largest funders of humanities research and education programs in U.S. Given the nature of humanities research, a number of programs and initiatives include an international component. Two such opportunities are described below. For more information on opportunities available and potentially new ideas for international collaborations, contact the relevant NEH program officer.

Digging into Data

- Overview: The Digging into Data Challenge aims to address “how ‘big data’ changes the research landscape for the humanities and social sciences.” Digging into Data will consider what new computationally based research methods are needed to best utilize the massive amounts of digital data available. The overall aim is to create a new research infrastructure for the 21st century. Eight international funding agencies participated in the last solicitation, representing Canada, the Netherlands, the United Kingdom, and the U.S, which support projects by international teams.
- Eligibility: Eligibility requirements follow those of the national funding agency. For example, for U.S. participants, the lead investigator would receive the grant from NSF, NEH or the U.S. Institute of Museum and Library Services (IMLS), and would be required to adhere to the relevant agency rules and procedures.
- Award/Program Size: Award amount from each national funding agency vary; for US teams, the award amount will range between \$25,000 and \$125,000, and if two or more U.S. institutions are involved, the maximum award increases to \$175,000.
- Due Dates: The next deadline is expected to be mid-2013. Updated guidelines will be published before that time.

Sources: <http://www.neh.gov/grants/odh/digging-data-challenge> and <http://www.diggingintodata.org/>

Collaborative Research Programs

- Overview: Collaborative Research Grants support “interpretive humanities research undertaken by a team of two or more scholars, for full-time or part-time activities for periods of a minimum of one year up to a maximum of three years.” In 2012, the U.K. Arts and Humanities Research Council (AHRC) collaborated with NEH to support projects in humanities that focus on humanities and health and well-being.
- Eligibility: For the U.K.-U.S. awards, participants from both countries must be involved. More information is available at <http://www.neh.gov/files/grants/collaborative-research-dec-6-2012.pdf>.
- Award/Program Size: Awards are made for a minimum of one year and up to a maximum of three years, and normally range from \$25,000 to \$100,000 per year. Awards for conferences are typically made for a minimum of one year and normally range from \$15,000 to \$65,000 per grant.
- Due Dates: The next submission deadline is December 5, 2013 for projects beginning October 2014.

Sources: <http://www.neh.gov/grants/research/collaborative-research-grants>

National Institute of Standards and Technology

International activities at the National Institute of Standards and Technology (NIST) are coordinated by the Office of International Affairs (OIA)⁴. OIA acts as a contact point for all foreign visitors coming to NIST, provides advice for NIST researchers travelling abroad, and coordinates NIST involvement in bilateral science and technology agreements. While the programs described below are for NIST researchers, the opportunities are included as information for any faculty collaborating with NIST researchers.

Foreign Guest Researcher Program

- Overview: The Foreign Guest Research Program enables researchers from abroad to work in collaboration with NIST scientists. OIA helps successful applicants with all policy and procedural issues.
- Eligibility: Foreign guest researchers fall into the following three categories:
 - “Those supported by their home institution
 - Researchers supported through bilateral programs or international organizations
 - Direct scientist-to-scientist collaboration or support.”
- Award/Program Size: In general, guest research support is provided by a sponsoring company or organization. NIST sometimes can assist with modest U.S. living expenses.
- Due Date: Applicants should contact the points of contact for the Foreign Guest Researcher Program available at the link below.

Source: <http://www.nist.gov/iaao/intlaffr.cfm#foreign>

Foreign Visitor Program

- Overview: OIA coordinates short term visits of foreign visitors to NIST; longer visits are supported through the Foreign Guest Research Program (above)
- Eligibility: Support is open to foreign researchers; a two week advance notice is requested.
- Award/Program Size: No funding is available although NIST will host technical meetings according to the interests of the visitor.
- Due Date: Applicants should contact the points of contact for the Foreign Visitor Program available at the link below.

Source: <http://www.nist.gov/iaao/intlaffr.cfm#visitor>

Funding Opportunities with Egypt

- Overview: In 1995, the U.S. Government signed a cooperative science and technology agreement with Egypt. Both sides contribute to a joint fund to catalyze international collaboration. A joint board carries out a technical review of the proposals, and awards are made on a competitive basis.
- Eligibility: Projects must include a U.S. and Egyptian participant.

⁴ <http://www.nist.gov/iaao/intlaffr.cfm>

- Award/Program Size: Funding provides support for the additional costs of bilateral cooperation, such as travel, equipment, and per diem. Most awards are for three years.
- Due Date: Applicants should contact the point of contact for the program available at the link below.

Source: <http://www.nist.gov/iaao/intlaffr.cfm#egypt>

National Science Foundation

The National Science Foundation (NSF) provides a variety of opportunities for U.S. researchers to pursue international research collaborations and international staff and student exchange. In general, any new grant proposal submitted to NSF may include an international component where appropriate. International collaboration is also supported through more focused initiatives that are described below. Generally NSF will fund the U.S. researcher or student while collaborators in partner countries will be funded by their own national funding.

International activities within NSF are coordinated by the Office of International Science and Engineering (OISE)⁵. OISE promotes international collaboration across NSF directorates and programs. OISE runs a number of programs as well as provides supplemental funding⁶ to existing grants for international activity. International supplements are one of the most straight forward mechanisms to support international collaboration. It is worth noting that international activities within NSF are increasingly becoming embedded within the directorates. NSF strongly recommends that Principal Investigators (PIs) speak with the relevant program or OISE regional/country program officer prior to submitting an international proposal.

Partnerships for International Research and Education (PIRE)

- Overview: OISE's flagship and most competitive international program, PIRE seeks to catalyze a higher level of international engagement in the U.S. science and engineering community by supporting innovative, international research and education collaborations. PIRE supports large scale projects on the institution to institution scale. The most recent PIRE solicitation was focused on NSF's Science, Engineering, and Education for Sustainability (SEES) initiative; it is not yet clear if the next solicitation will have a specific topical focus.
- Eligibility: Only one proposal may be submitted per institution. The latest solicitation included additional funding from foreign funding agencies to PIs in their countries; local eligibility rules apply in those cases.
- Award/Program Size: In the latest solicitation, \$10-\$15 million was available annually to support 10-15 projects. Average funding is around \$4-\$5 million per award.
- Due Dates: In the past, PIRE has been funded in two-year cycles, and the next call for proposals is due in the summer of 2013. However, given recent restructuring at OISE, this is not certain.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12819&org=OISE&from=home

Science Across Virtual Institutes (SAVI)

- Overview: The SAVI program aims to bring together international teams of researchers both physically and virtually to work collaboratively on problems of mutual interest. NSF will support the

⁵ <http://www.nsf.gov/div/index.jsp?div=OISE>

⁶

https://www.fastlane.nsf.gov/NSFHelp/flashhelp/fastlane/FastLane_Help/fastlane_help.htm#supplemental_funding_request_introduction.htm

U.S. participants as a supplement to an existing grant or as a full proposal to an existing NSF program. Projects aim to “enhance research collaboration; data sharing; networking; and technical exchanges of students, post docs, and junior faculty across borders.” The SAVI program is a collection of other NSF funding mechanisms that support international collaboration, and should be used in discussions to “leverage counterpart funding across a common topic of interest.” PIs should consider other NSF funding mechanisms when determining the best fit for their research activity. It is recommended that PIs speak with the relevant program officer before submitting a proposal. Information on the existing SAVI awards is available at

http://www.nsf.gov/news/special_reports/savi/awards.jsp.

- Eligibility: NSF general eligibility requirements apply to SAVI.
- Award/Program Size: Awards vary in size from \$50,000 to \$400,000 per year for up to five years. There is no set budget for SAVI as awards are made through relevant discipline programs.
- Due Dates: Proposals are accepted at any time.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504756

Catalyzing New International Collaborations (CNIC)

- Overview: CNIC awards provide a small amount of funding to support planning visits abroad for U.S. researchers to develop full research proposals that will be submitted to NSF at a later date. Before submitting a proposal, PIs should contact the relevant NSF program office to decide if CNIC or the EAGER⁷ mechanism is more suitable for their project.
- Eligibility: NSF general eligibility requirements apply to CNIC.
- Award/Program Size: Total funding of \$2 million per year is expected to support 30-40 awards. Average award size is \$50,000.
- Due Dates: Proposals are accepted at any time.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12815&org=OISE&from=home

Research Coordination Networks (RCN)

- Overview: The RCN program uses novel networking strategies to advance a field or create a new direction in research or education. RCNs provide funding to establish new collaborations including those across international boundaries. RCNs support researchers to share information, collaborate on ongoing research, develop new collaborations, and advance research and education through the sharing of ideas and best practices.
- Eligibility: Standard NSF eligibility criteria apply.
- Award/Program Size: Funding of \$7.5-\$17.5 million is available pending availability of funding to support 15-25 awards. This varies across disciplinary research programs and RCN tracks.
- Due Date: Full proposals are accepted anytime and should be submitted to a participating program (see the specific program website for submission dates).
- Special Attention:

⁷ http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/gpg_2.jsp#IID2

- NSF created a new Science, Engineering and Education for Sustainability (SEES) track for the RCN program. RCN-SEES focuses on “interdisciplinary topics that will advance sustainability science, engineering and education as an integrative approach to the challenges of adapting to environmental, social and cultural changes associated with growth and development of human populations, and attaining a sustainable energy future.” The due date for RCN-SEES is March 4, 2013.
- NSF also created a special RCN track to support undergraduate biology education. RCN-UBE (Undergraduate Biology Education) focuses on “any topic likely to lead to improved participation, learning, or assessment in undergraduate biology curricula.” The due date for RCN-UBE is June 14, 2013.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11691

Research Networks in the Mathematical Sciences (RNMS)

- Overview: The RNMS program recognizes that mathematical research has become increasingly collaborative and interactive; these awards complement existing funding by enabling increased interactions between multiple research groups. RNMS encourages involvement of postdoctoral researchers, students, and international partners.
- Eligibility: Only one proposal may be submitted per U.S. institution.
- Award/Program Size: Total funding of \$15 million per year is expected, with individual awards of up to \$1 million per year for five years supported through this program.
- Due Dates: The next deadline is July 14, 2015.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503461&org=OISE&from=home

Materials World Network (MWN)

- Overview: The MWN program administered by the NSF Division of Materials Research supports collaborations between U.S. and foreign researchers to promote collaborations in fundamental materials and condensed matter research.
- Eligibility: NSF general eligibility requirements apply.
- Award/Program Size: Total funding of \$2.5-\$4 million is expected in FY 2013 to support 20-30 awards.
- Due Dates: This is an annual solicitation; the most recent deadline was November 14, 2012.

Source:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12820&org=DMR&sel_org=DMR&from=fund

International Collaboration in Chemistry (ICC)

- Overview: The International Collaboration in Chemistry between U.S. Investigators and their Counterparts Abroad (ICC) program administered by the NSF Division of Chemistry supports collaborations between U.S. and foreign researchers to promote continued progress in basic research in chemistry.

- Eligibility: NSF general eligibility requirements apply.
- Award/Program Size: Total funding of \$10 million is expected in FY 2013 to support 10 to 40 awards. It is expected that the average award size will be \$420,000 for three years.
- Due Dates: This is an annual solicitation; the most recent deadline was October 16, 2012.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13627

Partnerships for Enhanced Engagement in Research (PEER)

- Overview: PEER was established under an NSF/USAID MOU to enable scientists in developing countries to be funded by USAID to work with NSF funded scientists at U.S. institutions. Research areas of interest include: food security, climate change, and other development topics including disaster mitigation, biodiversity, water, and renewable energy.
- Eligibility: "Proposals in these topical areas of interest may be submitted by applicants based in any of the 87 full PEER Science-eligible countries. Additionally, PEER Science invites proposals from applicants in the following specific countries or working on the following topical areas, for which USAID missions and offices have allocated resources to foster science and development goals: Indonesia, Biodiversity Conservation and Clean Energy in the Philippines, Water for the Middle East and North Africa, Biodiversity Research in the Lower Mekong, Maldives Climate Change Adaptation, and Biodiversity Conservation in Brazil.⁸" Please note that this program is administered by the National Academies. Proposals are not accepted from U.S. researchers.
- Award/Program Size: Awards to single institutions range from \$30,000 to \$60,000 per year for one to three years. A limited number of larger, multi institution projects may receive up to \$110,000 per year for up to three years.⁹
- Due Dates: PEER is expected to be an annual competition. The most recent deadline was December 4, 2012.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504726

International Research Experience for Students (IRES)

- Overview: This program supports groups of U.S. undergraduate or graduate students conducting research abroad in collaboration with foreign investigators.
- Eligibility: Proposals must be submitted by a U.S. institution, organization, or professional society. Award recipients must be U.S. citizens or permanent residents.
- Award/Program Size: Awards may be up to \$250,000 over three years. NSF expects to make 12 awards in FY 2013 for total funding of approximately \$2.25 million.
- Due Dates: Proposals are due annually on the third Tuesday in August.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12831&org=OISE&from=home

East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI)

⁸ <http://sites.nationalacademies.org/PGA/dsc/PEERscience/index.htm>

⁹ http://sites.nationalacademies.org/PGA/dsc/peerscience/PGA_071743

- **Overview:** This fellowship program introduces graduate students to East Asia and Pacific science and engineering through first-hand research experiences and exposure to science policy, scientific infrastructure, society, culture, and language. Institutes are located in Australia, China, Japan, South Korea, New Zealand, Singapore and Taiwan and occur each summer between June and August.
- **Eligibility:** Applicants must be enrolled in a research-oriented master's or Ph.D. program at a U.S. institution pursuing studies in fields of science and engineering supported by NSF. Applicants must be U.S. citizens or permanent residents.
- **Award/Program Size:** There are an estimated 200 awards annually. The program provides a \$5,000 stipend, a roundtrip international airline ticket, and a pre-departure orientation in the Washington, D.C. area. Foreign co-sponsoring organizations will provide additional support to cover EAPSI students' living expenses abroad during the period of the summer institutes, and will provide an in-country orientation to the science environment and culture of each location.
- **Due Date:** Applications are due annually on the second Wednesday in November.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284&org=OISE&from=home

Pan-American Advanced Studies Institutes Program (PASI)

- **Overview:** The PASI program is jointly supported by NSF and the Department of Energy (DOE), and supports short courses from 10 to 21 days that involve lectures, demonstrations, and research seminars aimed at advanced graduates, post-doctoral researchers, and junior faculty. PASIs aim to "disseminate advanced scientific and engineering knowledge and stimulate training and cooperation among researchers of the Americas in the mathematical, physical, and biological sciences, the geosciences, the computer and information sciences, and the engineering fields." Proposals in other NSF multidisciplinary areas may also be supported on an ad hoc basis.
- **Eligibility:** Applications must come from U.S. colleges and universities with graduate research programs, or non-profit, non-academic organizations. Applicants must be U.S. citizens or permanent residents.
- **Award/Program Size:** In FY 2012, there was funding of \$1.2 million available to support 10-16 projects. Average awards are around \$100,000.
- **Due Date:** The last deadline was April 2012; PASI is expected to be an annual solicitation.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5327&org=OISE&from=home

Integrative Graduate Education and Research Traineeship Program (IGERT)

- **Overview:** This program has been developed to meet the challenges of educating U.S. Ph.D. scientists, engineers, and educators with interdisciplinary backgrounds; deep knowledge in chosen disciplines; and technical, professional, and personal skills to become leaders and creative agents for change. It is also intended to facilitate greater diversity in student participation and preparation, and to contribute to the development of a diverse, globally-engaged science and engineering workforce. The major portion of the funds must be used for doctoral student stipends and educational and training activities. IGERT is an NSF-wide program.

- **Eligibility:** Projects may involve more than one institution, but a single institution must accept overall management responsibility. The lead institution must independently grant Ph.D. degrees in at least one of the science, technology, engineering and mathematics (STEM) fields supported by NSF in order to be eligible. All stipend recipients must be U.S. citizens or permanent residents.
- **Award/Program Size:** IGERT awards to institutions can be up to \$700,000 per year for five years. NSF plans to make approximately 18 new and renewal IGERT awards in fiscal years 2011 and 2012. The NSF contribution to graduate student stipends is currently \$30,000 per year per IGERT trainee for a 12-month appointment. Additional funding of \$200,000 is available as part of a competitive innovation incentive fund and for projects that include an international component.
- **Due Date:** Letters of intent were due May 1, 2012 and full proposals were due July 2, 2012.
- **Special Attention:** There is a limit of one proposal that may be submitted by an institution either as a single institution or as a lead institution in a multi-institution preliminary proposal.
- **Special Attention:** NSF created a new Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21) track in IGERT. Institutions may submit one proposal to the CIF21 track in addition to the one proposal they are allowed to submit to the regular IGERT solicitation. Letters of intent for the CIF21 track were due June 5, 2012 and full proposals were due August 6, 2012. Note that these dates are different than the due date for responses to the regular IGERT solicitation. More information, including the full solicitation and program contacts, is available at http://nsf.gov/funding/pgm_summ.jsp?pims_id=504772.

Source: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12759

Graduate Research Opportunities Worldwide (GROW)

- **Overview:** GROW is a new effort to support international research collaboration through the NSF Graduate Research Fellowship Program (GRFP). GROW will enable NSF supported Graduate Research Fellows (GRFs) to spend between three and 12 months in a partner country. GROW will add an international component to the GRF that will prepare Fellows to successfully engage in the global research environment by providing access to leading researchers and facilities around the world at an early stage of their career. The GROW program currently enables collaborations with Norway, Finland, Denmark, Sweden, Switzerland, Japan, South Korea, Singapore, and France.
- **Eligibility:** GROW is open to current GRFs.
- **Award/Program Size:** GROW awards will include a \$5,000 travel supplement from NSF, plus an additional stipend from the host agency in the partner country for living expenses. Details for each partner country are different; country specific information is available at http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201&org=DGE. NSF expects to support 400 GROW supplemental awards in FY 2013.
- **Due Date:**
 - December 5, 2012 – February 1, 2013: GRFs may submit GROW travel requests through the GRFP FastLane module following agreement with both their home and partner institutions.
 - February 1 – March 1, 2013: GROW requests will be reviewed internally at NSF.
 - Early April 2013: GROW supplemental awards will be announced.
 - June 15, 2013: International travel for the GROW award may begin; research must be initiated in the 2013-2014 fellowship year.

Source: http://www.nsf.gov/pubs/2013/nsf13022/nsf13022.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

Basic Research to Enable Agricultural Development (BREAD)

- Overview: The BREAD Program was established in 2009 in partnership with the Bill & Melinda Gates Foundation (BMGF). BREAD supports basic research “to address key constraints to smallholder agriculture in the developing world.” Unlike standard NSF awards, BREAD projects must “make a clear and well-defined connection between the outcomes of the proposed basic research and its direct relevance and potential application to agriculture in the developing world.” The latest and fourth BREAD competition is an “Ideas Challenge” offering up to 25 prizes of \$10,000 each. The winning awards will be the basis for the second stage of this program, Early Concept Grants for Exploratory Research (EAGER) proposals.
- Eligibility: BREAD is open to individuals including graduate students, postdoctoral associates or faculty at a university, college, or non-profit research organization both in the U.S. and internationally.
- Award/Program Size: BREAD will award 25 prizes of \$10,000 each.
- Due Date: Proposals should be submitted to the Ideas Challenge web site between April 1 and April 30, 2013 (www.nsf.gov/BREADIdeas); additional information will be available by March 1, 2013.

Source: http://www.nsf.gov/pubs/2013/nsf13035/nsf13035.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

U.S. Agency for International Development

In partnership with the Department of State, the U.S. Agency for International Development (USAID) is responsible for implementing the nation's global development agenda. Under the current administration, global development policy continues to be seen as a tool of diplomacy. In the last few years, USAID has developed a reform agenda to improve efficiency and effectiveness, build new partnerships, and focus on innovation and results. Actions pertaining to the academic community include: increased reliance on evidence-based work (through rigorous research findings); creation of the new Bureau of Policy, Planning, and Learning; new programs to build local and country-level capacity; and more work with a larger number of small organizations.

The USAID Office of Science and Technology (S&T) works with universities and researchers to address traditional development challenges. In terms of international efforts, USAID is working to:

- “Build relationships based on a foundation of science and technology.
- Build bonds between countries.
- Support the development of new S&T endeavors.
- Empower scientists to address critical development challenges.¹⁰”

Partnerships for Enhanced Engagement in Research (PEER)

- Overview: PEER is a collaborative program between USAID with NSF (PEER Science¹¹) and NIH (PEER Health¹²). Both NSF and NIH fund high quality U.S. scientists and engineers that carry out research in developing countries. USAID partners with these agencies to support collaborative projects by funding the partner in the developing country. PEER Science supports projects in food security, climate change, and other development topics. PEER Health supports projects in child survival, and Indonesia.
- Eligibility: PEER will directly fund scientists in developing countries that collaborate with either NSF or NIH funded researchers. There are 87 eligible countries for PEER Science, and 33 eligible countries for PEER Health. The program is administered by the National Academies, and more information is available on their website (link below).
- Award/Program Size: PEER Science awards range from \$30,000 to \$60,000 per year for one to three years, with a few larger and more complex projects of up to \$110,000 per year for up to three years. PEER Health awards will be up to \$150,000 per year for a maximum of three years.
- Due Dates: The current PEER Science solicitation is closed, and the new solicitation is expected to be announced no earlier than spring 2013. The PEER Health solicitation is a two stage process with invited proposals due to be submitted by February 1, 2013.

Source: <http://www.usaid.gov/what-we-do/science-technolog-and-innovation/international-research-science-programs/partnerships> and <http://sites.nationalacademies.org/pqa/dsc/peer/index.htm>

¹⁰ <http://www.usaid.gov/what-we-do/science-technolog-and-innovation/international-research-science-programs>

¹¹ <http://sites.nationalacademies.org/pqa/dsc/peerscience/index.htm>

¹² <http://sites.nationalacademies.org/PGA/dsc/PEERhealth/index.htm>

Grand Challenges for Development

- Overview: The Grand Challenges for Development initiative will identify problems and constraints, and provide evidence based analysis leading toward effective solutions. Currently, three Grand Challenges have been launched, and it is anticipated that there will be six in total.
 - The first Grand Challenge, **Saving Lives at Birth**¹³, was launched in March 2011 in collaboration with the Bill & Melinda Gates Foundation, Grand Challenges Canada, the government of Norway, the U.K. Department for International Development (DfID), and the World Bank. This challenge aimed to develop “groundbreaking prevention and treatment approaches for pregnant women and newborns in poor, low resource communities around the 48 hours of delivery.”
 - The second Grand Challenge, **All Children Reading**¹⁴, involved USAID along with World Vision, AusAID, and the U.S. Department of Education. The aim of the challenge is to lead “the charge in finding early grade reading solutions.”
 - The third Grand Challenge, **Powering Agriculture: An Energy Grand Challenge for Development**¹⁵ aims to “overcome critical barriers to agricultural electric energy access through innovative clean energy technologies and financing mechanisms.”
- Eligibility: Applications are invited from all types of organizations (e.g. educational, industrial, and not-for-profit and for-profit organizations, foundations, academic institutions, civic groups, and regional organizations) from all over the world.
- Award/Program Size:
 - Saving Lives at Birth – Seed grants up to \$250,000 each and transition grants up to \$2 million each.
 - All Children Reading – Maximum individual award size is \$300,000; total funding of \$7.5 million.
 - Powering Agriculture – Individual awards between \$300,000 and \$1.5 million; total funding of \$10 million - \$20 million.
- Due Dates:
 - Saving Lives at Birth – Currently closed.
 - All Children Reading – Currently closed.
 - Powering Agriculture – February 6, 2013.

Source: <http://www.usaid.gov/grandchallenges>

Development Innovation Ventures (DIV)

- Overview: DIV aims to develop new solutions to global development challenges that have the potential to change millions of lives at a fraction of the normal cost. DIV supports new, potentially transformative projects that are rigorously tested, and scale solutions to demonstrate effectiveness. Projects may be technical solutions as well as new business models, processes, or new combinations

¹³ <http://www.savinglivesatbirth.net/>

¹⁴ www.allchildrenreading.org

¹⁵ www.PoweringAg.org

of existing practices. DIV runs a competition for ideas, seeking input from a range of stakeholders, and then supports projects at three stages:

- Stage One – Proof of concept projects.
- Stage Two – For larger, country-scale projects, that include rigorous testing to ensure the solution works at the larger scale.
- Stage Three – For much larger projects to extend projects that already have proven success to a much larger scale.
- Eligibility: Applications are welcome from many different organizations including: Foundations, U.S. and non-U.S. private businesses, business and trade associations, international organizations, U.S. and non-U.S. colleges and universities, civic groups, regional organizations, etc. More information is available in the Annual Program Statement¹⁶.
- Award/Program Size:
 - Stage One – Up to \$100,000 over one year.
 - Stage Two – Up to \$1 million.
 - Stage Three – Up to \$15 million over several years.
- Due Date: Applicants may submit a letter of interest at any time. DIV has several closing dates, the next being March 1, 2013 with other dates to be determined.

Source: <http://idea.usaid.gov/organization/div/overview>

While USAID issues periodic solicitations for targeted research, much of the funding authority lies with individual missions throughout the world. With this in mind, it is important for interested faculty to begin making contact with personnel in appropriate USAID bureaus and country missions in order to highlight their research.

¹⁶ <http://idea.usaid.gov/sites/default/files/aps-oaa-12-000004%20div%20annual%20program%20statement.pdf>.

Other Agencies and Opportunities

Environmental Protection Agency

The U.S. Environmental Protection Agency (EPA) collaborates with a large number of international partners to address a wide range of global environmental issues in the following priority areas:

- Building Strong Environmental Institutions and Legal Structures
- Combating Climate Change by Limiting Pollutants
- Improving Air Quality
- Expanding Access to Clean Water
- Reducing Exposure to Toxic Chemicals
- Cleaning Up Electronic Waste (E-Waste)

EPA has limited extramural opportunities for university researchers as EPA utilizes its own labs and federal experts. That being said, opportunities exist to complement EPA research efforts. Once example of a (now closed) extramural international funding opportunity was the “Joint U.S.-UK Research Program: Environmental Behavior, Bioavailability and Effects of Manufactured Nanomaterials.” More information on this program is available at http://www.epa.gov/ncer/rfa/2009/2009_uk_nano.html.

Source: <http://www.epa.gov/oia/>

Department of Defense

The Department of Defense (DOD) funds research that is relevant to its mission, predominately drawing from engineering, computer/information science, and physical sciences researchers from the U.S. While DOD research is often proprietary and performed to enhance U.S. national security, service branch and agency research offices throughout DOD maintain a limited suite of international programs designed to keep the U.S. military at the forefront of technological advancement and innovation. Many of DOD’s international research and exchange opportunities are targeted at internal scientists or other DOD personnel, although opportunities exist for external faculty members to engage. Beyond international research programs, DOD also facilitates employee and academic exchanges to boost cooperation with allies on science and engineering issues. Select topics on which DOD has recently engaged in international research include climate change, clean energy, cybersecurity, and pandemic diseases. As with other DOD funding opportunities, a key way to engage is to build relationships with relevant program officers.

It should be noted that DOD is more selective in what it funds internationally due to the sensitive nature of work involving U.S. national security and funded projects can be subject to restrictions. With that said, international research and education supported by the service branch research offices includes:

- **Air Force Office of Scientific Research:** The Air Force Office of Scientific Research (AFOSR) funds multiple research and exchange programs with international partners. Chief among these efforts are AFOSR Detachments in Tokyo, London, and Santiago designed to give AFOSR an on the ground presence in key regions for scientific collaboration. These Detachments are collocated with Army and Navy international offices, and they administer programs ranging from support for conference to direct research funding. More information is available at <http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=8971>.
- **Army Research Laboratory:** Similar to AFOSR, the Army Research Laboratory (ARL) maintains International Technology Centers (ITCs) in Tokyo, London, and Sao Palo with the goal of fostering scientific collaboration with overseas research partners. Codified international activities are relatively new for ARL, having been formally launched in 2011. Each of the ARL directorates that participate is connected with the ITCs, and information about specific opportunities for engagement can be obtained through ARL program managers. Additionally, ARL maintains bi and multi lateral research partnerships with a host of U.S. allies in targeted areas.
- **Office of Naval Research:** The Office of Naval Research (ONR) also oversees an aggressive portfolio of international scientific programs through its ONR-Global initiative. Key components of ONRG include the Naval International Cooperative Opportunities in Science and Technology Program (NICOP) to support international research collaborations in areas of interest to ONR; a Visiting Scientist Program (VSP) to support short-term visits to the U.S. for international scientists working in priority areas for ONR; and a Collaborative Science Program (CSP) to support international workshops and conferences bringing together global researchers working in support of ONR science priorities. More information on each of these programs, including application instructions, is available at <http://www.onr.navy.mil/Science-Technology/ONR-Global.aspx>. Researchers can also submit inquiries to ONRG.ContactUS@mail.mil to be connected with the appropriate ONR program manager for their international interests.

National Aeronautics and Space Administration

The National Aeronautics and Space Administration (NASA) conducts space exploration work in five principal categories: Science, Aeronautics, Space Technology, Exploration, and Operations. While NASA participates in many international collaborations, these tend to be driven by high-level agreements on specific scientific or human exploration missions such as Mars rovers or the International Space Station. Individual researchers can apply to participate in these missions through membership on science definition teams or by being a part of an instrument development team. NASA does not have any programs designed to fund international collaborations for individual researchers.

National Oceanic and Atmospheric Administration

The mission of National Oceanic and Atmospheric Administration (NOAA) is to understand and predict changes in Earth's environment and to conserve and manage coastal and marine resources. NOAA is organized according to line offices, including the National Weather Service, the National Ocean Service, and the Office of Oceanic and Atmospheric Research, among others. The Office of Oceanic and

Atmospheric Research, which is where the majority of NOAA's extramural research funding is maintained, is organized into three general research topic areas: Climate Research; Weather and Air Quality Research; and Ocean, Coastal and Great Lakes Research.

Given the global nature of NOAA's research remit, international collaborations are key. However, the majority of NOAA research funding is intramural and international collaborations tend to be under government-to-government agreements on topics such as Cooperation on Space Weather¹⁷.

European Commission

Seventh Framework Program (FP7) for Research and Technological Development

The European Commission supports a range of research, development, and people exchange programs through the Seventh European Research Framework Program (FP7). FP7 mainly funds individuals, organizations and businesses in EU Member States; however, the U.S. can participate under certain circumstances. FP7 provides funding of over \$60 billion (€50 billion) over seven years from 2007 to 2013, and aims to increase growth and competitiveness in Europe through this focused investment in research and development.

FP7 is made up of five programs:

- (1) Cooperation – Supports transnational collaborative research projects in 10 key thematic areas.
- (2) Ideas – Supports any research based on scientific excellence; implemented through the European Research Council (ERC).
- (3) People – Supports researcher mobility and career development through “Marie Curie” actions.
- (4) Capacities – Seeks to strengthen research capacities (e.g. infrastructure, science in society, and international cooperation).
- (5) Nuclear Research – Supports fusion energy research (ITER), fission, and activities of the Joint Research Council (JRC) in nuclear energy.

FP7 expires in 2013; a list of current solicitations is available at <http://ec.europa.eu/research/participants/portal/page/funding>. More information on European Commission research and development opportunities is available at <http://ec.europa.eu/research/index.cfm>.

Horizon 2020

From 2014 to 2020, the EU will fund research and development through its new Horizon 2020 initiative. Horizon 2020 will have a total budget of \$107 billion (€80 billion), and will be a simpler version of FP7

¹⁷ <http://www.noaanews.noaa.gov/stories2012/pdfs/UK-NOAA%20Joint%20Statement%20cleared%20by%20Sir%20JB%2021%20june.pdf>

combined with other related innovation activities. In term of research and innovation, Horizon 2020 will have a dedicated science budget of \$33 million (€25 million), which includes a funding increase of 77 percent for the ERC (which is open to scientists of all nationalities). A total of \$24 million (€18 million) will be available to support industrial leadership in innovation through a range of activities. Finally, \$43 million (€32 million) is provided to address major societal challenges such as climate change, sustainable transport, renewable energy, food safety and security, and the aging population.

More information on Horizon 2020 is available at
http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=home.