

# FEDERAL PROGRAMS AND FELLOWSHIPS THAT PROVIDE SUPPORT FOR GRADUATE STUDENTS

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# **Overview**

This report contains a list of federal government research scholarship, fellowship, and internship programs that provide support for graduate students.

The federal government programs listed below are organized by the agency that runs the program. Within each agency, the programs are organized by the applying entity, such as whether the award is given to the institution or to individuals. The analysis of each opportunity includes a program summary, eligibility requirements, size of the program, approximate size and type of award, citizenship requirements, annual due dates, and other special factors. The program websites are provided as a source for more detailed information.

# **Department of Commerce**

# **National Oceanic and Atmospheric Administration**

The mission of National Oceanic and Atmospheric Administration (NOAA), a bureau of the Department of Commerce (DOC), 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 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. The majority of NOAA research fellowship opportunities are in the ocean research area. In addition to the opportunities below, NOAA has several programs that provide opportunities to work at NOAA sites. A complete list of graduate opportunities can be found at <a href="http://www.noaa.gov/audience/graduate">http://www.noaa.gov/audience/graduate</a>.

**Individual Awards** 

#### **Dr. Nancy Foster Scholarship Program**

- Overview: This program provides support for independent graduate-level research in oceanography, marine biology, or maritime archaeology. Women and members of minority groups are particularly encouraged to apply.
- Eligibility: Those eligible to apply are currently pursuing or intending to pursue a full-time master's or doctoral level degree in oceanography, maritime archaeology, or marine biology. Eligible applicants include those studying science, engineering, and resource management of ocean and coastal areas. A 3.3 grade point average and full-time student status is required.
- Citizenship: Applicants must be U.S. citizens or permanent residents.
- Award/Program Size: Each student's scholarship includes a 12-month stipend of \$30,000, an annual cost-of-education allowance of up to \$12,000, as well as \$10,000 to cover the costs of a four- to six-week research collaboration at a NOAA facility. Master's students may be supported for up to two years (at a maximum of \$84,000) and doctoral students for up to four years (at a maximum of \$168,000). NOAA awards two to four scholarships each year.
- Due Date: Applications for the 2017 scholarship will open on October 20, 2017 and will close on December 9, 2017.

Source: http://fosterscholars.noaa.gov/aboutscholarship.html, accessed July 7, 2017.

# Sea Grant/NOAA Fisheries Graduate Fellowship Program

- Overview: Supported by NOAA's Fisheries Service and the National Sea Grant Office, this fellowship targets doctoral students studying either marine population dynamics or marine resource economics.
- Eligibility: Applicants must be enrolled as a Ph.D. student in a U.S. university or college to apply.
- Citizenship: Only U.S. citizens are eligible to apply.
- Award/Program Size: Student awards totaling \$46,000 per year per student are provided through a cooperative agreement with state Sea Grant Programs. Funds may be used toward living expenses, tuition, and travel necessary to carry out the research.
- Due Date: Applications were due on January 27, 2017.

Source: <a href="http://seagrant.noaa.gov/FundingFellowships/NMFSSGFellowship.aspx">http://seagrant.noaa.gov/FundingFellowships/NMFSSGFellowship.aspx</a>, accessed July 7, 2017.

# Sea Grant John A. Knauss Marine Policy Fellowship

- Overview: Supported by the National Sea Grant Office, this fellowship targets graduate students who have an interest in ocean, coastal and Great Lake resources, and the national policy affecting decisions affecting those resources.
- Eligibility: Applicants must be enrolled in a graduate or professional program to apply.
- Citizenship: The program is open to all students meeting the eligibility requirements regardless of citizenship.
- Award/Program Size: Student awards totaling \$61,500 per year per student are provided through a
  cooperative agreement with state Sea Grant Programs. The length of assignment is one year (nonrenewable).
- Due Date: Applications were due February 21, 2017

Source: <a href="http://seagrant.noaa.gov/FundingFellowships/KnaussFellowship/ProspectiveFellows.aspx">http://seagrant.noaa.gov/FundingFellowships/KnaussFellowship/ProspectiveFellows.aspx</a>, accessed July 18, 2017.

### **National Institute of Standards and Technology**

The National Institute of Standards and Technology (NIST), an agency of the U.S. Department of Commerce (DOC), promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology. NIST is organized into five laboratories: Material Measurement, Physical Measurement, Engineering, Communications Technology, and Information Technology. It also has a Center for Neutron Research and a Center for Nanoscale Science and Technology.

**Individual Awards** 

#### Graduate Student Measurement Science and Engineering Fellowship Program

- Overview: This fellowship program provides financial assistance for doctoral students in disciplines related
  to NIST measurement science and engineering research. Specific fields vary by year, but in general include
  chemistry, computer science, electrical engineering, materials science, mathematics, mechanical
  engineering, and physics. Fellows complete two summer internships at NIST laboratories. The program is
  run in conjunction with the National Physical Science Consortium (NPSC, <a href="http://www.npsc.org/">http://www.npsc.org/</a>).
- Eligibility: Graduate students must be pursuing a degree from an NPSC-member university and in a field important to NIST, such as chemistry, computer science, electrical engineering, materials science,

mathematics, mechanical engineering, or physics. Applicants historically under-represented in STEM, either minority, female, or both are encouraged to apply.

- Citizenship: Fellows must be U.S. citizens.
- Award/Program Size: Fellows receive a \$20,000 stipend per year and tuition waiver, and may be funded for up to six years.
- Due Date: The application process opens on August 25, 2017 and closes on November 30, 2017.

Source: <a href="http://www.nist.gov/iaao/gmse.cfm">http://www.nist.gov/iaao/gmse.cfm</a>, accessed July 7, 2017.

# **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. However, DOD also provides some limited research and education opportunities in foreign languages, social sciences, and medical and life sciences.

**Individual Awards** 

## National Defense Science and Engineering Graduate Fellowship (NDSEG)

- Overview: This program is a competitive, portable fellowship that is awarded to students who intend to
  pursue graduate study in one of the 15 supported disciplines: Aeronautical and Astronautical Engineering;
  Biosciences; Chemical Engineering; Chemistry; Civil Engineering; Cognitive, Neural, and Behavioral
  Sciences; Computer and Computational Sciences; Electrical Engineering; Geosciences; Materials Science
  and Engineering; Mathematics; Mechanical Engineering; Naval Architecture and Ocean Engineering;
  Oceanography; and Physics.
- Eligibility: Applicants should be either enrolled in their last year of college or first two years of graduate study at the time of application. You must intend to pursue a doctoral degree in order to be eligible for NDSEG Fellowship support.
- Citizenship: Applicants must be U.S. citizens or nationals.
- Award/Program Size: The DOD has awarded approximately 180 new fellowships each year. NDSEG
  Fellowships last for three years and pay for full tuition and all mandatory fees, a monthly stipend, and up
  to \$1,000 a year in medical insurance. All fellows will receive a total of \$102,000.00 in stipend funds over
  the course of their 36-month program tenure. Stipends are prorated monthly based on a 12-month
  academic year.
- Due Date: Applications will open in September 2017, exact deadlines are not yet known.

Source: <a href="http://ndseg.asee.org/">http://ndseg.asee.org/</a>, accessed July 7, 2017.

## Science Mathematics and Research for Transformation (SMART) Scholarship for Service Program

- Overview: This program allows students pursuing an undergraduate or graduate degree in science, technology, engineering, and mathematics (STEM) disciplines to receive a full scholarship in exchange for serving at internships at DOD facilities and working for DOD after graduation. Students pursuing degrees related to the following are encouraged to apply: Aeronautical and Astronautical Engineering; Biosciences; Chemical Engineering; Chemistry; Civil Engineering; Cognitive, Neural, and Behavioral Sciences; Computer and Computational Sciences; Electrical Engineering; Geosciences; Industrial and Systems Engineering; Information Sciences; Materials Science and Engineering; Mathematics; Mechanical Engineering; Naval Architecture and Ocean Engineering; Nuclear Engineering; Oceanography; Operations Research; and, Physics.
- Eligibility: Applicants must 18 years or older by August 1, 2017. Applicants must also be enrolled in an
  undergraduate or graduate program at an approved US academic institution or have acceptance for
  entrance for the fall 2017 semester.
- Citizenship: Applicants must be citizens of the U.S., Australia, Canada, New Zealand, or the United Kingdom.
- Award/Program Size: Participants receive full tuition and education related fees; cash award paid at a rate of \$25,000 to \$38,000 depending on degree being pursued; paid summer internships; health insurance reimbursement allowance up to \$1,200 per calendar year; supplies allowance of \$1,000 per academic year;

mentoring; and employment placement after graduation. SMART awards may range from one academic term to five academic years.

- Due Date: Applications were due December 1, 2016, applications will open again in fall 2017.
- Special Attention: Participants must be able to participate in summer internships at DOD laboratories and be willing to accept post-graduate employment with the DOD. Participants must also have a minimum cumulative GPA of 3.0 on a 4.0 scale.

Source: <a href="http://smart.asee.org/">http://smart.asee.org/</a>, accessed July 7, 2017.

#### **David L. Boren Graduate Fellowship**

- Overview: This program supports the study of under-represented languages and areas critical to U.S.
  national security. The Fellowship provides support for overseas study and a domestic language study
  supplement. Fellows are required to work for the federal government in a national security related
  position for at least a year following graduation.
- Eligibility: Students must be enrolled in a graduate program at a U.S. academic institution. All applicants must demonstrate how their study programs are connected to achieving a better understanding of national security and must be planning to attend an overseas program in a country outside of Western Europe, Canada, Australia, or New Zealand.
- Citizenship: Applicants must be U.S. citizens.
- Award/Program Size: The Boren Fellowship provides a minimum of 12 weeks and maximum of one-year (maximum one year overseas) of support. The program provides up to \$24,000 for overseas study as well as limited funding for supplemental domestic language study, for a total of \$30,000 for combined overseas/domestic study. Programs can begin no earlier than June 1, 2018 and no later than March 1, 2019.
- Due Date: The application for the 2017 Boren Fellowship is due January 30, 2018.

Source: http://borenawards.org/boren fellowship/basics.html, accessed July 7, 2017.

#### National Physical Science Consortium (NPSC) – National Security Agency Sponsorship

- Overview: This program is a vehicle by which the National Security Agency (NSA) supports students pursuing doctoral degrees in mathematics, engineering, computer science, and physics. In addition to stipend support, NSA provides technical mentoring and at least two summers of employment at NSA.
- Eligibility: Students must be enrolled in a graduate program at an NPSC member institution. A complete list of participating institutions is available at <a href="http://www.npsc.org/Universities/universities.html">http://www.npsc.org/Universities/universities.html</a>.
- Citizenship: Applicants must be U.S. citizens.
- Award/Program Size: The fellowship may last up to six years and includes full tuition and required fees as well as an annual \$20,000 expense allowance. Students may additionally hold a research or teaching assistantship.
- Due Date: Applications are accepted from September 1 until November 30 each year.

Source: <a href="https://www.intelligencecareers.gov/icstudents.html?Agency=NSA">https://www.intelligencecareers.gov/icstudents.html?Agency=NSA</a> and <a href="https://www.npsc.org/">https://www.npsc.org/</a>, accessed July 7, 2017.

# **Department of Education**

The Department of Education offers a number of discretionary grants in the areas of education policy enhancement, educational environments, and educator capabilities. Most of the graduate fellowship support programs are run by the Office of Post-Secondary Education, which is responsible for developing and implementing post-secondary education policy that increases quality and access.

**Institution Awards** 

#### **Graduate Assistance in Areas of National Need (GAANN)**

Note: This program was proposed for elimination in the President's FY 2018 budget request and in the House FY 2018 Labor-HHS-ED Appropriations bill.

- Overview: This program provides fellowships, through university academic departments and programs, to
  assist graduate students with excellent records who demonstrate financial need and plan to pursue the
  highest degree available in their course of study at the institution. Grants are awarded to programs and
  institutions to sustain and enhance the capacity for teaching and research in the following areas of
  national need: area studies, biological sciences/life sciences, chemistry, computer and information
  sciences, engineering, foreign languages and literature, mathematics, nursing, physics, education
  evaluation/research/statistics.
- Eligibility: Students are not eligible to apply for this grant. Academic departments and programs within
  institutions of higher education that provide courses of study leading to a graduate degree may apply.
   Fellows must be enrolled as graduate students, have financial need, and be planning a career in teaching
  or research. The academic program must have been in existence for at least four years.
- Citizenship: Fellows must be citizens, nationals, or permanent residents of the U.S.
- Award/Program Size: The program made 95 new awards in FY 2015 averaging \$246,065 per award. The duration of a grant awarded under this part is a maximum of three annual budget periods during a three-year project period. The number of fellowships awarded per institution can range from three to ten.
- Due Date: The last competition was held in FY 2015 and the next competition is anticipated in FY 2018. Specific dates have not yet been released.
- Special Attention: An institution must provide an institutional matching contribution equal to at least 25 percent.

Source: <a href="http://www2.ed.gov/programs/gaann/index.html">http://www2.ed.gov/programs/gaann/index.html</a>, accessed July 7, 2017.

#### **Fulbright-Hays Doctoral Dissertation Research Abroad**

Note: This program was proposed for elimination in the President's FY 2018 budget request and in the House FY 2018 Labor-HHS-ED Appropriations bill.

- 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: Institutions of higher education are eligible to apply. Graduate students in doctoral programs in the fields of non-Western European foreign languages and area studies must apply through the institutions in which they are enrolled. Eligible students must be planning a teaching career in the U.S. upon graduation.
- Citizenship: Students are eligible to receive a fellowship if they are citizens, nationals, or permanent residents of the U.S.

- Award/Program Size: In FY 2016, an estimated \$3 million was appropriated for the program to cover approximately 90 new fellowships with an average size of \$33,500. Expenses covered by the award include: travel expenses, including excess baggage to and from the residence of the fellow to the host country of research; maintenance and dependents allowances based on the cost of living in country of research for the fellow and his or her dependent(s); project allowance for research related expenses such as books, copying, tuition and affiliation fees, local travel and other incidental expenses; health and accident insurance premiums; and \$100 administrative fee to the applicant institution.
- Due Date: Applications were due March 14, 2017.

Source: http://www2.ed.gov/programs/iegpsddrap/index.html, accessed July 7, 2017.

## Foreign Language and Area Studies (FLAS) Fellowships Program

Note: This program was proposed for elimination in the President's FY 2018 budget request.

- Overview: This program provides academic year and summer fellowships to institutions of higher education to assist meritorious undergraduate students and graduate students undergoing training in modern foreign languages and related area or international studies.
- Eligibility: Institutions of higher education are eligible to apply. Institutions conduct competitions to select eligible undergraduate students and graduate students to receive fellowships.
- Citizenship: 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 2014, the Department of Education funded 108 new awards at an average of \$281,500 per year. Fellowships include an institutional payment and a stipend for the fellow. For graduate students, the average year round graduate fellowship was \$33,000 and average summer fellowship was \$7,500.
- Due Date: This program operates on a four-year grant cycle. The next competition is in FY 2018.

Source: http://www2.ed.gov/programs/iegpsflasf/index.html, accessed July 7, 2017.

#### Promoting Postbaccalaureate Opportunities for Hispanic Americans (PPOHA) Program

- Overview: This program is authorized under Title V, Part B of the Higher Education Act and seeks to increase the attainment of postsecondary degrees by Hispanic and low-incomes students. PPOHA provides grants to improve the quality of and expand post-baccalaureate programs for Hispanic students.
- Eligibility: Institutions of higher education that qualify as Hispanic Serving Institutions are eligible to apply.
- Award/Program Size: The PPOHA program awards Individual Development Grants amounting up to \$575,000 per year. The grant period is five years.
- Due Date: This program, which is funded through mandatory sources, has not been competed since 2014. The Administration does not intend to compete PPOHA in FY 2018.

Source: <a href="http://www2.ed.gov/programs/ppoha/index.html">http://www2.ed.gov/programs/ppoha/index.html</a>, accessed July 24, 2017.

#### Ronald E. McNair Postbaccalaureate Achievement Program

Overview: The Ronald E. McNair Postbaccalaureate Achievement Grants help IHEs in aiding low income
and first-generation college students to successfully complete undergraduate programs, and in
encouraging them to pursue graduate degrees, with the goal of increasing the number of these students
enrolled in doctoral programs by working "closely with participants as they complete their undergraduate

- requirements. Institutions encourage participants to enroll in graduate programs and then track their progress through to the successful completion of advanced degrees."
- Eligibility: Applicants for McNair grants must assure the Department of Education that participants complete at least their sophomore year of study if they receive an internship through the program, and that the majority of the population served is low-income, first-generation college students.
- Award/Program Size: In 2012, the maximum award amount for a new regular McNair program was \$220,000 per year to serve at least 25 participants per year. The grant duration is five years.
- Due Date: Competitions are typically held every four years, with the most recent competition completed in 2012.

Sources: <a href="http://www2.ed.gov/programs/triomcnair/index.html;">https://www.law.cornell.edu/cfr/text/34/646.21</a>, accessed on July 21, 2017.

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# **Department of Energy**

The Department of Energy (DOE) funds research that is relevant to its mission of advancing the national, economic, and energy security of the U.S. DOE supports research in a broad range of basic and applied sciences. It is the principal federal funding agency of research programs in high-energy physics, nuclear physics, and fusion energy sciences. It also manages fundamental research programs in basic energy sciences, biological and environmental sciences, and computational science and is the federal government's largest single provider of funds for materials and chemical sciences. Other research areas include climate change, geophysics, genomics, life sciences, nanotechnology, fossil energy, and nuclear medicine.

Individual Awards

#### **Graduate Student Research (SCGSR) Program**

- Overview: This program provides supplemental awards to outstanding U.S. graduate students to pursue
  part of their graduate thesis research at a DOE laboratory in areas that address scientific challenges central
  to the DOE Office of Science mission. The research opportunity is expected to advance the graduate
  students' overall doctoral thesis while providing access to the expertise, resources, and capabilities
  available at the DOE laboratories. The program is geared towards students pursuing a Ph.D. in physics,
  chemistry, material sciences, biology (non-medical), mathematics, engineering, computer or
  computational sciences, or select areas of environmental sciences. Around 50 awards are provided each
  year.
- Eligibility: Applicants must be studying at an accredited college or university in the United States or its
  territories. At the time of application, applicants must have obtained Ph.D. candidacy at their home
  institution, and must have established a defined graduate thesis project and graduate thesis advisor.
  Applicants must demonstrate that their graduate thesis is in an area of fundamental research aligned with
  the DOE Office of Science Priority Research Areas identified in the SCGSR solicitation.
- Citizenship: Applicants must be U.S. citizens or permanent residents and be at least 18 years of age at the time of applying.
- Award/Program Size: The award period for the proposed research project at DOE laboratories may range from three months to one year. The SCGSR program provides supplemental awards to support part of a graduate student's thesis research to be conducted at a DOE laboratory. Supplemental awards are intended to cover incremental costs associated with living and travel expenses during the award period. Awardees are eligible to receive a monthly stipend in the amount of up to \$3,000 for general living expenses while at the host DOE laboratory during the award period and up to \$2,000 in travel support if the host DOE national laboratory is greater than 50 miles from their university/resident location.
- Due Date: Applications are due in November 2017.

Source: <a href="https://science.energy.gov/wdts/scgsr/">https://science.energy.gov/wdts/scgsr/</a>, accessed July 7, 2017.

#### Computational Science Graduate Fellowship (CSGF) Program

Overview: This program provides opportunities to students pursuing a Ph.D. in scientific or engineering
disciplines with an emphasis in high-performance computing. CSGF trains scientists to meet the nation's
workforce needs and helps to create a nationwide interdisciplinary community. Fellows complete a 12week practicum at a DOE national laboratory and follow a program of study that combines courses in a
scientific or engineering discipline with courses in computer science and applied mathematics. An average
of 20 fellowships are awarded per year.

- Eligibility: College seniors or first year graduate students in the physical, engineering, computer, mathematical, or life sciences without an M.S. degree are eligible to apply.
- Citizenship: Applicants must be either U.S. citizens or permanent residents.
- Award/Program Size: Support of this fellowship is limited to four years and must be renewed each year. The fellowship provides full tuition and required fees, a yearly stipend of \$36,000, and \$5,000 academic allowance in the first year of the fellowship and \$1,000 each renewed year thereafter.
- Due Date: Applications for the 2017-18 fellowship were due January 18, 2017. Applications generally open in the fall of each year and close in January.

Source: <a href="http://www.krellinst.org/csgf/">http://www.krellinst.org/csgf/</a>, accessed July 7, 2017.

# Mickey Leland Energy Fellowship Program (MLEF)

- Overview: The mission of the MLEF program is to provide opportunities for under-represented students in
  the STEM fields with opportunities to gain hands-on research experience with the Department of Energy's
  (DOE) Office of Fossil Energy (FE). Selected candidates will train under the mentorship of program officials
  and scientists on focused research projects consistent with the mission of the Office of Fossil Energy. At
  the conclusion of the program, Fellows attend a "Technical Forum" where they will present their research
  findings and tour a nearby technical site. The program lasts 10 weeks.
- Eligibility: Applicants must be at least 18, and be currently enrolled in a full-time STEM program at the Bachelor's (at least sophomore), master's, or doctoral level. Applicants must also have a cumulative GPA of at least 3.0. While the program aims to increase opportunities for under-represented students, all eligible students are encouraged to apply.
- Citizenship: Applicants must be U.S. citizens.
- Award Size: Current master's students receive a weekly stipend of \$750; Current Ph.D. students receive a weekly stipend of \$850.
- Due Date: The application deadline was January 3, 2017.

Source: http://www.fossil.energy.gov/education/lelandfellowships/index.html, accessed July 7, 2017.

#### **Energy Frontier Research Centers (EFRCs)**

- Overview: The Energy Frontier Research Center program was established to accelerate advancements in energy technologies. Currently there are 36 EFRCS across 34 states and the District of Columbia. EFRCs are funded at \$2 million to \$4 million annually, over a four-year award duration. EFRCs have teams composed of Senior Investigators, students, postdoctoral fellows, and technical staff. Generally, each EFRC has between two and ten graduate students per team. Graduate students cannot lead EFRC's, but if they are interested in participating, should speak to faculty teams on campus. Annually, EFRC's are invited to nominate one graduate student and one postdoctoral researcher to present at the EFRC's Principal Investigators' Meeting.
- Upcoming Opportunity: DOE will recompete EFRCs in the next few months, opening up opportunities for
  graduate students to join a faculty team on campus that may be competing for the center award. Future
  research topics include the energy-water nexus, catalysis, nuclear energy, energy storage, quantum
  materials, synthesis science, and instrumentation science.

Source: <a href="https://science.energy.gov/bes/efrc/">https://science.energy.gov/bes/efrc/</a>, accessed July 21, 2017.

DOE offers a variety of internship opportunities for students in DOE-related fields:

#### **Student Stipend-Based Internship Programs**

Overview: DOE offers several stipend-based internship programs including National Laboratories
Internships, the Visiting Faculty Program, the Community College Internship, the Science Graduate
Fellowship, the Science Undergraduate Laboratory Internship, the NNSA Minority Serving Institutions
Program, the Minority Educational Institution Student Partnership Program, the Mickey Leland Energy
Fellowship, and the DOE Scholars Program.

Source: <a href="https://energy.gov/jobs/services/students-recent-graduates/stipend-based-internships">https://energy.gov/jobs/services/students-recent-graduates/stipend-based-internships</a>, accessed July 31, 2017.

# **DOE Scholars Program**

- Overview: The DOE scholars program provides an introduction to DOE's mission and operations to both undergraduates and post-graduates who are interested in exploring a career with the Department. The program is offered to students in a variety of disciplines, with site placements across the country.
- Eligibility: Applicants must be at least 16 years of age and be an undergraduate, graduate, or post-graduate of an accredited institute of higher education.
- Citizenship: Applicants must be U.S. citizens.

Source: https://orise.orau.gov/doescholars/description/eligibility.html, accessed July 31, 2017.

#### **DOE Office of General Counsel**

- Overview: The DOE Office of General Counsel offers internships to undergraduate students as well as students in law school. The program is designed to expose students to the areas of law and policy within the DOE. Internships are unpaid and are offered year-round.
- Eligibility: Applicants must be undergraduates or currently enrolled in law school.
- Citizenship: Applicants must be U.S. citizens.

Source: https://energy.gov/gc/general-counsel-undergraduate-intern-program, accessed July 31, 2017.

More information on internship opportunities at DOE is available at <a href="http://energy.gov/student-programs-and-internships">http://energy.gov/student-programs-and-internships</a>.

# **Department of Health and Human Services**

#### **National Institutes of Health**

The primary function of the National Institutes of Health (NIH) is to support biomedical and health-related research. Included in this mission is research on the behavioral and social impacts of individuals and society as related to public health. Please refer to each program's corresponding link to see which of NIH's agencies and 27 Institutes and Centers (ICs) within the Department of Health and Human Services (HHS) are collaborating on each program. Further details on the relevant areas of graduate study can be found at the link as well. A complete list of all NIH training and fellowship programs with links to current opportunities is available at <a href="https://researchtraining.nih.gov/">https://researchtraining.nih.gov/</a>.

**Institutional Awards** 

# Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32)

- Overview: The purpose of this program is to provide predoctoral and postdoctoral research training
  opportunities for individuals interested in pursuing research careers in biomedical, behavioral, and clinical
  research. Training activities can be in "basic biomedical or clinical sciences, in behavioral or social sciences,
  in health services research, or in any other discipline relevant to the NIH mission."
- Eligibility: Only domestic, non-profit, private or public institutions may apply for grants to support NRSA institutional research training programs. The applicant institution must have a strong and high-quality research program in the area(s) proposed for research training and must have the requisite staff and facilities on site to conduct the proposed research training program. The training principal investigator (PI) should be an established basic, behavioral, and/or clinical researcher.
- Citizenship: The individuals to be trained must be citizens, nationals, or residents of the U.S.
- Award/Program Size: Awards may be made for periods up to five years and are renewable. The number of
  awards is contingent upon NIH appropriations, and the submission of a sufficient number of meritorious
  applications. NIH will contribute to the combined cost of tuition and fees at the rate in place at the time of
  award. Stipends are also provided as a subsistence allowance for trainees to help defray living expenses
  during the research training experience and are based on a 12-month appointment period.
- Due Date: Applications are due in three annual cycles: January 25, May 25, and September 25. Please note, applicants should check with the relevant IC since some do not accept T series applications for all three cycles.
- NIGMS announced in January 2017 that it is developing a new T32 funding announcement tailored for graduate programs in the basic sciences and designed to catalyze the modernization of biomedical graduate education. NIGMS expects to issue the announcement in fall 2017 with applications due in May 2018. The new announcement will apply only to NIGMS predoctoral T32 training grants. More information is available here: <a href="https://loop.nigms.nih.gov/2017/03/early-notice-new-nigms-institutional-predoctoral-training-grant-funding-opportunity-announcement/">https://loop.nigms.nih.gov/2017/03/early-notice-new-nigms-institutional-predoctoral-training-grant-funding-opportunity-announcement/</a>.

Source: http://grants.nih.gov/grants/guide/pa-files/PA-16-152.html, accessed July 7, 2017.

# Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35)

• Overview: The objective of this program is to develop or enhance research training opportunities for individuals interested in careers in biomedical, behavioral, and clinical research. The program provides

short-term support for a period of at least eight, but no more than 12, weeks in a grant year for full-time training experiences under the supervision of experienced researchers. Many of the NIH ICs use this grant mechanism exclusively to support intensive, short-term research training experiences for students in health professional schools during the summer. The program may also be used to support other types of predoctoral and postdoctoral training in focused, often emerging, scientific areas relevant to the mission of the NIH ICs.

- Eligibility: Only domestic, non-profit, private or public institutions may apply for grants to support NRSA institutional research training programs. The applicant institution must have a strong, high quality research program in the area(s) proposed for research training and must have the requisite staff and facilities on site to conduct the proposed research training program. The PI conducting training should be an established basic, behavioral, and/or clinical researcher.
- Citizenship: The individuals to be trained must be citizens, nationals, or residents of the U.S.
- Award/Program Size: The number of awards is dependent on NIH appropriations and the number of meritorious applications received.
- Due Date: Applications are due in three annual cycles: January 25, May 25, and September 25. Please note, applicants should check with the relevant IC since some do not accept T series applications for all three cycles.
- Information on other institutional training awards is available here <a href="https://researchtraining.nih.gov/programs/training-grants">https://researchtraining.nih.gov/programs/training-grants</a>.

Source: http://grants.nih.gov/grants/guide/pa-files/PA-16-151.html, accessed July 7, 2017.

**Individual Awards** 

#### Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)

- Overview: The purpose of this individual predoctoral research training fellowship is to provide support for promising doctoral candidates who will be performing dissertation research in scientific health-related fields relevant to the missions of the participating NIH ICs.
- Eligibility: The applicant must be at the dissertation research stage of their training and must show evidence of both high academic performance in the sciences and a "commitment to a career as an independent research scientist." Before submitting a fellowship application, the applicant must also identify a sponsoring institution. The sponsoring institution must have appropriate staff and facilities available on site to provide a suitable environment for performing high-quality research training and be demonstrably committed to research training in the particular program proposed by the applicant.
- Citizenship: Applicants must be citizens, nationals, or residents of the U.S.
- Award/Program Size: Individuals may receive "up to 5 years of aggregate Kirschstein-NRSA support at the
  predoctoral level including any combination of support from institutional training grants...and an individual
  fellowship award."
- Due Date: Applications are due in three annual cycles: April 8, August 8, and December 8.
- Information on other NIH fellowship programs is available here <a href="https://researchtraining.nih.gov/programs/fellowships">https://researchtraining.nih.gov/programs/fellowships</a>.

Source: <a href="http://grants.nih.gov/grants/guide/pa-files/PA-16-309.html">http://grants.nih.gov/grants/guide/pa-files/PA-16-309.html</a>, accessed July 7, 2017.

#### **Fulbright-Fogarty Fellows in Public Health**

• Overview: NIH's Fogarty International Center partners with the Fulbright Program in supporting medical or graduate student fellows to promote the expansion of public health research in resource-limited settings.

- Eligibility: Medical or graduate students may apply. Eligibility requirements vary by country, and each applicant can apply to only one country.
- Citizenship: Applicants must be U.S. citizens.
- Award/Program Size: The size and number of awards granted vary.
- Due Date: The Fulbright-Fogarty Fellowships in Public Health program is not accepting applications for the 2017-2018 academic year. The application deadline for the 2018-2019 academic year has not yet been determined.

Source: http://www.fic.nih.gov/Programs/Pages/fulbright-fellowships.aspx, accessed July 7, 2017.

#### **Centers for Disease Control and Prevention**

The mission of the Centers for Disease Control and Prevention (CDC) is to protect and improve public health through information that enhances health decision-making and partnerships with state health departments and other organizations. The CDC focuses on developing and applying disease prevention and control policies, especially in infectious diseases, environmental health, occupational safety and health, health promotion, and prevention and education activities.

# Internships

CDC offers a variety of internship and fellowship opportunities and training and research grants, often administered through institutions, including colleges and universities, for students in CDC-related fields. The training grants are designated for specific professions by category, and a list of current opportunities is available at <a href="https://www.cdc.gov/fellowships/full-time/masters.html#modalldString\_CDCTable\_0">https://www.cdc.gov/fellowships/full-time/masters.html#modalldString\_CDCTable\_0</a>. A sampling of internship opportunities for current students includes:

- ASANCHS Research Fellowship Program
   http://www.amstat.org/careers/pdfs/ASANCHSResearchFellowshipProgram.pdf
- ASPPH/CDC Allan Rosenfield Global Health Fellowship Program https://fellowships.aspph.org/programs/details.cfm?programID=2
- ASPPH/CDC Public Health Fellowship Program https://fellowships.aspph.org/programs/details.cfm?programID=10
- Dr. James A. Ferguson Emerging Infectious Diseases Fellowship Program
   http://www.kennedykrieger.org/professional-training/professional-training-programs/rise-programs/ferguson-fellowship

# **Agency for Healthcare Research and Quality**

The Agency for Healthcare Research and Quality (AHRQ), within the Department of Health and Human Services (HHS), works to improve the quality, safety, efficiency, and effectiveness of healthcare. The research sponsored and conducted by AHRQ addresses issues of organization, delivery, financing, utilization, patient and provider behavior, outcomes, effectiveness, and cost. These scientific results improve the evidence base to enable better healthcare decisions in areas such as disease prevention, appropriate use of medical technologies, cost-effective diagnoses and treatment, long-term care, and the reduction of racial and ethnic medical disparities.

Individual Awards

#### **Health Services Research Dissertation Program**

- Overview: This program provides support to individuals who are conducting research undertaken as part of
  an academic program to qualify for a doctorate degree relating to healthcare quality. Research
  applications must address one of the following areas: (1) Safety/quality Reduce the risk of harm from
  healthcare services by promoting the delivery of appropriate care that achieves the best quality outcomes;
   (2) Efficiency Achieve wider access to effective health care services and reduce health care costs; (3)
  Effectiveness Assure that providers and consumers/patients use beneficial and timely health care
  information to make informed choices.
- Eligibility: Eligible applicants must be enrolled in a doctoral program in social or behavioral sciences, health services research, social sciences, epidemiology, biostatistics, health policy, or health informatics.
   Applicants must have completed all non-dissertation requirements for their doctoral degree by the time of submission of the application.
- Citizenship: Applicants must be U.S. citizens, non-citizen nationals, or permanent residents.
- Award/Program Size: Total award size and number of awards depends on the number of applications that AHRQ receives. The total direct cost awarded must not exceed \$40,000 for the entire project period.
   Project periods must be a minimum of nine months but may not exceed 17 months.
- Due Date: Applications are due annually February 1, May 1, August 1, and November 1.

Source: <a href="http://grants.nih.gov/grants/guide/pa-files/PA-15-318.html">http://grants.nih.gov/grants/guide/pa-files/PA-15-318.html</a>, accessed July 7, 2017.

## **Health Resources and Services Administration**

The Health Resources and Services Administration (HRSA), an agency of the Department of Health and Human Services (HHS), is the primary federal agency for improving access to healthcare services for people who are uninsured, isolated, or medically vulnerable. The Bureau of Health Professions within HRSA increases access to healthcare by developing, distributing, and retaining a diverse, culturally competent health workforce.

HRSA offers a variety of health professions training grants, often administered through institutions, including colleges and universities. The training grants are designated for specific professions by category, a list of which is accessible here: <a href="http://bhpr.hrsa.gov/grants/index.html">http://bhpr.hrsa.gov/grants/index.html</a>. Below are several examples of HRSA's multidisciplinary and broad eligibility grants to highlight the types of opportunities HRSA has funded in the past; it is important to note that most of the funding examples listed have expired, but may be recompeted in the future.

**Institution Awards** 

#### Bureau of Health Workforce (BHW) Scholarships for Disadvantaged Students

- Overview: This program promotes diversity among health professions students by providing scholarships
  for students from disadvantaged backgrounds. Health professions and nursing schools can apply for
  scholarship funding for students from disadvantaged backgrounds who are enrolled, or accepted for
  enrollment, as full-time students at the schools.
- Eligibility: Accredited schools that are recruiting students from disadvantaged backgrounds and training
  them in any of the following fields are eligible: allopathic medicine, osteopathic medicine, dentistry,
  veterinary medicine, optometry, podiatry, pharmacy, chiropractic, behavioral and mental health, public
  health, nursing, allied health, and physician assistance. Schools receive priority if they can demonstrate
  success in enrolling under-represented minorities, a high rate of primary care graduates, and/or a high rate
  of graduates working in underserved communities.

Prepared by Lewis-Burke Associates, September 2017

- Citizenship: Students receiving scholarships must be U.S. citizens, nationals, or permanent residents.
- Award/Program Size: Awards can be used for partial or full scholarships at the institution's discretion, although full scholarships are encouraged. Participating schools are responsible for selecting scholarship recipients, making reasonable determinations of need, and providing scholarships that do not exceed the allowable costs (i.e., tuition, reasonable educational expenses, and reasonable living expenses, with a cap for the total scholarship award of \$30,000). In 2016, the most recent round, there were 79 awards, with approximate total funding for the program at \$43.7 million.
- Due Date: The most recent application deadline was January 25, 2016.

#### Source:

https://ersrs.hrsa.gov/ReportServer/Pages/ReportViewer.aspx?/HGDW\_Reports/FindGrants/GRANT\_FIND&AC\_TIVITY=T08&rs:Format=HTML4.0, accessed July 31, 2017.

#### Behavioral Health Workforce Education and Training (BHWET) Program

- Overview: This program, first competed in 2012, aims to strengthen the clinical field competencies of social workers and psychologists who pursue clinical service with high need and high demand populations. In 2014, the program held a competition in partnership with the Substance Abuse and Mental Health Services Administration (SAMHSA) for "Behavioral Health Workforce Education and Training for Professionals." The 2014 competition specifically focused on expanding the behavioral health workforce and "serving children, adolescents, and transitional-age youth at risk for developing or who have developed a recognized behavioral health disorder." The shift in focus was aligned with the Obama Administration's Now is the Time initiative. The program provides funding to support clinical internships and field placements. The program was originally funded through SAMHSA and administered through HRSA, but has moved to HRSA as directed by the FY 2017 omnibus appropriations bill.
- Eligibility: Eligible applicants are accredited schools and programs of social work, health services psychology, marriage and family therapy, psychiatric mental health nurse practitioner, professional counseling, clinical psychology, and counseling psychology.
- Award/Program Size: The estimated total amount for the FY 2014 competition was \$26.7 million. Individual awards are up to \$480,000 per year, and HRSA expects to make 60-130 awards.
- Due Date: The most recent solicitation for the Behavioral Health Workforce Education and Training program was released in April 2017. It is not clear whether future competitions will be held.

Source: <a href="http://www.grants.gov/view-opportunity.html?oppId=253408">http://www.grants.gov/view-opportunity.html?oppId=253408</a>; <a href="http://bhpr.hrsa.gov/grants/mentalbehavioral/mbhet.html">http://bhpr.hrsa.gov/grants/mentalbehavioral/mbhet.html</a>, accessed July 7, 2017.

#### Leadership in Public Health and Social Work Education (LPHSWE)

- Overview: The objective of the LPHSWE program is to prepare students for leadership roles in public health social work. "Students benefit from dual enrollment in accredited schools of social work and public health by receiving training, education, and practice experience in interprofessional practice, leadership management, research and evaluation, and policy development."
- Eligibility: Eligible applicants are accredited health professions schools, academic health centers, state or local governments, and public or private nonprofit entities. For profit entities are not eligible. Consult the website for additional details.
- Award/Program Size: Up to \$300,000 per year, with a total of 3 grants distributed.
- Due Date: Applications are accepted between July 6 and August 7.

Source: <a href="https://bhw.hrsa.gov/fundingopportunities/?id=7c3787ac-818a-4c70-b3ae-3f53510fd6f1">https://bhw.hrsa.gov/fundingopportunities/?id=7c3787ac-818a-4c70-b3ae-3f53510fd6f1</a>, accessed August 21, 2017.

#### **Health Careers Opportunity Program (HCOP)**

Note: The HCOP was eliminated in the President's FY 2018 budget request, as well as in the House Appropriations FY 2018 Labor-HHS-ED bill.

- Overview: The HCOP provides students from disadvantaged backgrounds an opportunity to develop the skills needed to successfully compete, enter, and graduate from health professions schools.
- Eligibility: Eligible applicants are accredited schools of medicine, osteopathic medicine, dentistry, nursing, pharmacy, podiatric medicine, optometry, veterinary medicine, public health, chiropractic, allied health, schools offering a graduate program in behavioral and mental health practice, and entities providing programs for the training of physician assistants.
- Award/Program Size: In FY 2016 HRSA allocated \$14.19 million to HCOP for 30 awards.
- Due Date: The most recent solicitation closed on May 15, 2015. New funding opportunities have not been announced.
- Special Attention: A funding preference was given to applications involving a comprehensive approach by several public or nonprofit private health or educational programs that would result in the development of a competitive applicant pool of individuals from disadvantaged backgrounds who desire to pursue health professions careers.

Source: <a href="http://bhpr.hrsa.gov/grants/diversity/hcop.html">http://bhpr.hrsa.gov/grants/diversity/hcop.html</a>, <a href="https://ersrs.hrsa.gov/ReportServer/Pages/ReportViewer.aspx?/HGDW\_Reports/FindGrants/GRANT\_FIND&AC\_TIVITY=D18&rs:Format=HTML4.0">https://ersrs.hrsa.gov/ReportServer/Pages/ReportViewer.aspx?/HGDW\_Reports/FindGrants/GRANT\_FIND&AC\_TIVITY=D18&rs:Format=HTML4.0</a>; <a href="https://bhw.hrsa.gov/fundingopportunities/default.aspx?id=9b288889-b486-4e9d-a02a-2dd9d80a9ccc">https://bhw.hrsa.gov/fundingopportunities/default.aspx?id=9b288889-b486-4e9d-a02a-2dd9d80a9ccc</a>, accessed July 7, 2017.

#### **Substance Abuse and Mental Health Services Administration**

The Substance Abuse and Mental Health Services Administration (SAMHSA), within the Department of Health and Human Services (HHS), is the implementation arm for social and behavioral intervention and prevention strategies in public health. While much of SAMHSA's discretionary funds go to state and local governments or to support the health workforce, opportunities to implement SAMHSA initiatives for which nonprofit entities (such as universities) are eligible are occasionally offered.

**Individual Awards** 

#### **Minority Fellowship Program**

Overview: The goal of this program is to increase the pool of professionals qualified to provide leadership, consultation, training, and administration to government, public, and private organizations that develop and implement programs for under-served ethnic minority persons with mental and/or substance abuse disorders. This program provides grants to encourage and facilitate the doctoral and post-doctoral development of minority nurses, psychiatrists, psychologists, and social workers. The program is managed by seven associations: American Nurses Association (ANA), American Psychiatric Association (APA), Council on Social Work Education (CSWE), American Psychological Association (APA), The Association for Addiction Professionals (AAP), American Association for Marriage and Family Therapy (AAMFT), and the National Board for Certified Counselors and Affiliates (NBCC). In order to receive an award, students must apply through one of the aforementioned associations. In FY 2016, SAMHSA allocated approximately \$8 million to the Minority Fellowship Program.

- AAMFT—The program is open to all full-time doctoral students in marriage and family therapy doctoral programs that demonstrate a strong commitment to a career in ethnic minority mental health and substance abuse services and providing substance abuse and mental health services to minority and underserved populations. African American, Alaskan Native, American Indian, Asian American, Hispanic/Latino, Native Hawaiian, and Pacific Islander students are especially encouraged to apply.
- ANA Applicants must be a member of an ethnic or racial minority group: Asian or Asian American, Black or African American, Hispanic or Latino, American Indian or Alaska Native, and Native Hawaiian or other Pacific Islander. Applicants must be a registered nurse and have a master's degree in psychiatric or mental health nursing or a related field and be pursuing a doctoral degree in their field. Additionally, applicants must be an ANA member and able to demonstrate a commitment to a research career in nursing and substance abuse and/or psychiatric or mental health issues affecting minority populations. The fellowship guidelines recommend that all applicants should have completed one year of graduate studies prior to applying to the MFP.
- ApA Applicants must be psychiatry residents-in-training and remain in training during the
  entire academic year. Applicants must be ApA members. All applicants are welcome to apply
  regardless of race or ethnicity but must demonstrate their commitment to serve ethnic
  minority populations.
- APA Applicants must demonstrate a strong commitment to a career in ethnic minority mental health and substance abuse services. Applicants should be enrolled full-time in an APA-accredited doctoral program. African American, Alaskan Native, American Indian, Asian American, Hispanic/Latino, Native Hawaiian, and Pacific Islander students are especially encouraged to apply.
- CSWE Applicants must have a master's degree in social work and be starting full-time study leading to a doctoral degree in social work or be currently enrolled as full-time students in a doctoral social work program. All applicants are welcome to apply regardless of race or ethnicity but must demonstrate a commitment to a career providing mental health and substance abuse services to ethnic, racial, social, and cultural minorities.
- NBCC This program is intended to support doctoral students in counseling from diverse backgrounds with the intention of producing a workforce committed to addressing issues in underserved populations such as mental health as well as substance abuse and addiction therapy. African Americans, Alaska Natives, American Indians, Asian Americans, Hispanics/Latinos, Native Hawaiians and Pacific Islanders are especially encouraged to apply.
- Citizenship: Applicants must be U.S. citizens or permanent residents.
- Award/Program Size:
  - AAMFT Fellows receive \$20,000 per year for a maximum of three years and must be renewed annually.
  - ANA Fellowships are renewed on an annual basis. The Fellowship is usually awarded for 10 to 12 months. A fellow who wishes to receive continual awards for the maximum five years must complete a progress report each year. Renewals are not automatic. The annual stipend amounts vary from year to year depending on federal allocations to the MFP.
  - ApA Fellows receive monthly stipends and serve for one year with an opportunity to apply for an additional year. The annual stipend amounts vary from year to year depending on federal allocations to the MFP.
  - APA Fellows receive financial support for a maximum of three years and must be renewed annually. There is limited availability for dissertation support.
  - CSWE Fellows receive monthly stipends for a one-year period to defray living expenses;
     some tuition support may be provided depending on the availability of funds. The duration of

the award is three years contingent upon funding and the fellow maintaining satisfactory progress towards degree objectives.

○ NBCC — Fellows receive up to \$20,000 a year.

#### • Due Dates:

- o AAMFT Applications are due in March annually.
- o ANA Application are due in March annually.
- o ApA Applications are due January 31 annually.
- o APA Applications are due in January annually.
- o CSWE Applications are due February or March annually.
- o NBCC Applications are due November 15.

Source: <a href="http://media.samhsa.gov/minorityfellowship/Default.aspx">http://media.samhsa.gov/minorityfellowship/Default.aspx</a>; <a href="http://store.samhsa.gov/shin/content//SMA11-4638/SMA11-4638.pdf">http://store.samhsa.gov/shin/content//SMA11-4638/SMA11-4638.pdf</a> accessed July 7 2017.

# **Department of Homeland Security**

The Science and Technology (S&T) Directorate is the primary research and development arm of the Department of Homeland Security (DHS). The Directorate has three portfolios that address basic research through advanced technology development and transition - spanning four primary divisions that address critical homeland security needs: Borders and Maritime Security; Chemical and Biological Defense; Cyber Security; and Explosives.

**Individual Awards** 

#### **Nuclear Forensics Graduate Fellowship Program (NFGFP)**

- Overview: This program is intended to support doctoral students pursuing a degree in nuclear, geochemical, and other nuclear forensics related disciplines. NFGFP aims to develop the next generation of nuclear forensic scientists to meet the needs of the U.S. government, and create a viable student career path in nuclear forensics. The program is a 12-month appointment, which is renewable for up to a total of 5 years. Fellows participate in two 10-week hands-on laboratory practicums at an agency conducting research related to nuclear forensics, such as at the Department of Defense or Department of Energy laboratories.
- Eligibility: Graduate students with undergraduate degrees in physical science, life science, or engineering are eligible to apply. They must be pursuing a specialty closely related to technical nuclear forensics, including but not limited to: radiochemistry, geochemistry, nuclear physics, nuclear engineering, materials science, and analytical chemistry. Students can apply as undergraduates if they will be entering graduate school by the start of the award period.
- Citizenship: Applicants must be U.S. citizens.
- Award/Program Size: The award includes tuition and a monthly stipend of \$2,400. While on a practicum assignment, fellows' monthly stipend increases by \$500 (prorated).
- Due Date: There is no call for applications for the 2016-2017 cycle. Applications were previously due in February. It is unclear when the next call for applications will be held.

Source: http://www.scuref.org/nfgf-01/, accessed July 7, 2017.

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# **Department of State**

The Department of State supports a limited number of international social science and exchange programs each year. Many of these grants focus on international public policy, governance, and/or human rights. A limited number of these programs are open to or targeted at graduate students. Further, recent budget constraints have driven a consolidation of programs and left the Fulbright Program as the primary option for graduate students seeking fellowship funding through the Department.

**Individual Awards** 

#### Fulbright Grants for Graduate Study and Research Abroad (part of the Fulbright U.S. Student Program)

- Overview: This program is an international educational exchange program designed to increase mutual
  understanding between Americans and people in other countries. The program provides participants,
  chosen for their academic merit and leadership potential, with the opportunity to study, teach, conduct
  research, exchange ideas, and contribute to finding solutions to 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.
- Citizenship: 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: The Fulbright Program awards approximately 8,000 new grants annually. In FY 2017, the congressional appropriation was \$240 million. Foreign governments and private organizations also contribute funding.
- Due Date: Applications are due October 6, 2017.

Source: https://exchanges.state.gov/us/program/fulbright-us-student-program, accessed July 7, 2017.

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# **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. The Science Mission Directorate explores the Earth, Sun, planets, and the universe. The Aeronautics Research Mission Directorate designs and tests new flight technologies that bolster exploration and lead to improved flight capabilities on Earth. The Human Exploration and Operations Mission Directorate concentrates on the International Space Station and developing new methods for human exploration in space. The Space Technology Mission Directorate invests in potentially game-changing technology with applications across NASA mission directorates. In education, NASA activities include support for scientific training in fields relevant to NASA's mission as well as general outreach using space to inspire interest in technical issues and careers.

#### **Individual Awards**

#### NASA Space Technology Research Fellowships (NSTRF)

- Overview: The NSTRF supports graduate student researchers who demonstrate significant potential to
  contribute to NASA's goal of creating innovative new space technologies for the Nation's scientific,
  exploration, and economic future. Selected candidates will have the opportunity to perform research at
  their resident campuses, NASA centers, and/or at non-profit U.S. Research and Development (R&D)
  facilities.
- Eligibility: Students must be pursuing a master's or doctoral degree relevant to the field of space
  technology (only technical degrees will be selected, not those that are policy-focused). Entering master's
  or doctoral students, and doctoral students already holding a master's degree, must have completed one
  year or less toward earning the degree. Doctoral students must have completed less than three years of
  work toward the degree.
- Citizenship: Applicants must be U.S. citizens, nationals, or permanent residents.
- Award/Program Size: The 12-month award provides a maximum student stipend of \$36,000 in addition to
  allowances for health insurance, tuition and fees. The fellows also receive on-site NASA center experience
  and faculty advisers. The maximum annual amount of an award is \$74,000. Awards may be renewed for
  up to one year of additional support for master's students, and up to three additional years for Doctoral
  students.
- Due Dates: Application for the 2017 solicitation were due November 3, 2016. Dates for 2018 have not yet been released.

Source: <a href="https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={A3488581-2E70-6AA1-76F0-E9A5A770A975}&path=open, accessed July 7, 2017.">accessed July 7, 2017.</a>

# NASA Earth and Space Science Fellowship (NESSF) Program

- Overview: The purpose of the NESSF is to ensure the continued development of a highly qualified
  workforce capable of contributing to NASA's efforts to advance scientific understanding of the Earth, the
  Sun, the evolution of the solar system, and the conditions necessary to nurture life in the universe.
  Awards will consist of training grants to the respective universities with the advisor acting as principal
  investigator.
- Eligibility: Only students pursuing master's or doctoral degrees in Earth or space sciences, or related disciplines, will be considered. Students may apply at any point in their degree program. Students

pursuing a Baccalaureate may also apply if they are actively enrolled in a master's or doctoral degree program at the time of the award. An individual accepting this award may not simultaneously be receiving an award for any other Federal fellowship or traineeship.

- Citizenship: NESSF is open to all students enrolled at any U.S. university, though U.S. citizens or permanent U.S. residents will be given preference.
- Award/Program Size: The maximum amount for an NESSF award is \$30,000 per year, with \$24,000 covering the student stipend. An additional \$6,000 is available to defray costs of fees, travel, conferences, books, supplies, health insurance, and/or other allowances. NESSF awards are made initially for one year, but can be extended for up to two more years depending upon the level of progress.
- Due Dates: Proposals for the 2016 solicitation were due on February 2, 2015. No dates for a future solicitation have been released.

Source: <a href="http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={B6CDCEA6-8EDD-A48A-FAF8-E588F66661C3}&path=open, accessed July 7, 2017.">http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={B6CDCEA6-8EDD-A48A-FAF8-E588F66661C3}&path=open, accessed July 7, 2017.</a>

## **National Space Grant College and Fellowship Program**

- Overview: The National Space Grant College and Fellowship Program (Space Grant) is a national network of colleges and universities, which includes over 850 affiliates from universities, colleges, industry, museums, science centers, and state and local agencies. These affiliates belong to one of 52 consortia in all 50 states, the District of Columbia, and the Commonwealth of Puerto Rico. Each of the 52 consortia funds fellowships and scholarships for students pursuing careers in STEM, as well as curriculum enhancement and faculty development. A goal of the program is to recruit and train U.S. citizens (especially women, underrepresented minorities, and persons with disabilities) for careers in aerospace science and technology. Consortia are required to provide a specific target percentage for participation of female and underrepresented minority students in fellowship and scholarship programs.
- Eligibility: Graduate students from a variety of STEM disciplines are eligible for fellowships which enable them either to initiate or continue research in their own fields and complete their studies. Eligibility details vary from institution to institution.
- Citizenship: Applicants must be U.S. citizens.
- Award/Program Size: The size and duration of the fellowship awards vary at each institution.
- Due Dates: Due dates vary at each institution.

Sources: <a href="http://www.nasa.gov/offices/education/programs/national/spacegrant/home/index.html">http://www.nasa.gov/offices/education/programs/national/spacegrant/home/index.html</a>, accessed July 7, 2017.

### NASA "One-Stop Shopping Initiative" (OSSI)

Internships and Fellowships

NASA offers a variety of fellowship, scholarship, and internship opportunities for students ranging from high school through postdoctoral levels in NASA-related fields.

Information on currently available opportunities can be found at <a href="https://intern.nasa.gov/ossi/web/public/guest/searchOpps/">https://intern.nasa.gov/ossi/web/public/guest/searchOpps/</a>. This site is searchable by discipline, time frame, education level, and NASA Center/Facility of interest.

# **National Science Foundation**

The National Science Foundation (NSF) funds basic research in all areas of science and engineering. This includes research on social, behavioral, and economic sciences as well as science, technology, engineering, and mathematics (STEM) education.

**Institution Awards** 

### National Science Foundation Research Traineeship Program (NRT)

- Overview: The objective of the NRT is to innovate interdisciplinary, transformative models for STEM graduate education in order to prepare the scientists and engineers of the future. NRT is intended to build on the longstanding Integrative Graduate Research Traineeships program (IGERT), but additionally includes "training for multiple career pathways, rotating priority research themes, inclusion of both master's and doctoral students, a broader definition of trainees, and greater budgetary and programmatic flexibility." Unlike IGERT, the NRT program has specific research themes that will rotate every two to three years. Special topics for 2015 2017 competitions were Understanding the Brain (UtB) and Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS). Special topics have not yet been released for future years. Proposals are also invited from other interdisciplinary themes as long as they connect to national research priorities and "have high potential for development of innovative practices in graduate education." In addition to the Traineeship track that provides stipend money for graduate students, there is also an Innovations in Graduate Education Track that funds development and piloting of innovative graduate education approaches.
- 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.
- Citizenship: All stipend recipients must be U.S. citizens or permanent residents.
- Award/Program Size: Proposed budget can be up to \$3,000,000 total for up to five years. For the current competition, NSF anticipates making approximately 30 awards in FY 2017.
- Due Date: Letters of Intent were due December 9, 2016 and full proposals were due February 7, 2017. A solicitation for FY 2018 has not yet been announced but is expected to be released in fall 2017.
- Special Attention: For the current competition, there is a limit of two proposals per institution for the Traineeship Track and two for the Innovations in Graduate Education Track.

Source: <a href="http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=505015">http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=505015</a>, accessed July 20, 2017.

### CyberCorps (R): Scholarship for Service (SFS)

- Overview: SFS seeks to increase the number of qualified students entering the field of cybersecurity and to
  increase the capacity of the U.S. higher education enterprise to continue to produce professionals in that
  field. This program is composed of two tracks, the Scholarship Track and the Capacity Track. The
  Scholarship Track provides funding to colleges and universities to award scholarships to students in the
  cybersecurity field. The Capacity Building Track provides funds to colleges and universities to improve the
  quality and increase the production of cybersecurity professionals.
- Eligibility: For the Scholarship Track, the proposing organization must provide documented evidence that they have a strong existing cybersecurity program. This documentation can include accreditation as a National Security Agency or Department of Homeland Security Center of Academic Excellence in

Information Assurance Education (CAE/IAE or CAE-R) or equivalent documentation of a strong cybersecurity program. Scholarship recipients must be full-time students within two years of graduation and in a formal program that is focused on computer security or information assurance at an awardee institution, full-time students within three years of graduation from a bachelor's or the master's degree, students participating in a combined bachelor's and master's degree ("five year") program, or research-based doctoral students within three years of graduation. Scholarship recipients must also meet the selection criteria for federal employment.

- Citizenship: Scholarship recipients must be U.S. citizens.
- Award/Program Size: The SFS Scholarship Track supports up to three years of tuition, room and board allowance, and a stipend. The scholarships provide academic year stipends of \$22,500 per year for undergraduate students and \$34,000 per year for graduate students. In addition, SFS scholarships cover expenses normally incurred by full-time students in the institution, including tuition and education related fees (does not include items such as meal plans, housing, or parking); a health insurance reimbursement allowance up to \$3,000 per year; a professional development allowance (travel, professional certification etc.) of \$4,000 and a book allowance of \$2,000 per academic year. Typical Scholarship Track awards are \$3-5 million for five years to support four classes of six students each. Capacity Track awards are up to \$500,000. For FY 2017, NSF expects to make 8-13 Scholarship Track awards and 8-13 Capacity Track awards.
- Due Date: Applications for the Scholarship Track are due between July 10 and July 31, 2017. Applications for Capacity Building Track awards are due between November 17 and December 5, 2017.

Source: https://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=504991, accessed July 20, 2017.

## **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.
- Citizenship: Recipients must be U.S. citizens or permanent residents.
- Award/Program Size: Under the previous solicitation, awards were allowed up to \$250,000 over three years. NSF has made 25 to 30 awards per year over the last few years.
- Due Dates: This program is currently awaiting a new solicitation. Previous due dates were the third Tuesday in August annually.

Source: http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=12831, accessed July 20, 2017.

### **Enriched Doctoral Training in the Mathematical Sciences (EDT)**

- Overview: This program supports efforts by departments to provide supplementary experiences that expose graduate students in the mathematical sciences to other fields and careers outside academia.
- Eligibility: Proposals must be submitted by a U.S. academic institution, non-profit organization, or professional society.
- Citizenship: Participating graduate students supported with EDT funds must be U.S. citizens, nationals, or permanent residents.
- Award/Program Size: Awards may be up to \$600,000 over three years. NSF originally anticipated making up to 10 awards per year, but has made a maximum of 4 awards in a single year since the conception of the program in 2014.
- Due Dates: Proposals are due the second Wednesday in July, annually.

Prepared by Lewis-Burke Associates, September 2017

Source: http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=505083, accessed July 20, 2017.

**Individual Awards** 

#### **Graduate Research Fellowship Program (GRFP)**

- Overview: GRFP is NSF's signature graduate support program, providing support for students in the early stages of their graduate or doctoral studies in science and engineering.
- Eligibility: Fellowships are awarded for graduate study leading to research-based master's or doctoral degrees in all fields supported by NSF, including in science, social science, engineering, mathematics, as well as STEM education. Applicants are eligible to apply during their senior year of college, prior to entering graduate school, during their first year of graduate school, or during the fall term of their second year of graduate school. New for the 2017-2019 competitions, graduate students may only apply one time after starting graduate school, either in their first or second years of study. Applicants must be enrolled at a U.S.-based institution for their graduate study.
- Citizenship: Applicants must be U.S. citizens, nationals, or permanent residents.
- Award/Program Size: NSF expects to award 2,000 new fellowships per fiscal year. Fellowships provide three years of support. For each year of support, NSF provides a stipend of up to \$34,000 to the fellow and a cost-of-education allowance of \$12,000 to the degree-granting institution.
- Due Dates: Applications are due in the last week of October annually with the exact date dependent on the field in which the student is applying.

Source: <a href="http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=6201">http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=6201</a>, accessed July 20, 2017.

#### **Graduate Research Internship Program (GRIP)**

- Overview: The GRIP program provides supplemental funding to NSF Graduate Research Fellows to conduct
  collaborative research with select federal agencies. Fellows participate in internships with a host research
  mentor at national laboratories and facilities. Currently participating agencies include the Office of Naval
  Research, the Smithsonian Institution, the Census Bureau, the Environmental Protection Agency, the
  Federal Bureau of Investigation, NOAA, the U.S. Geological Survey, U.S. Department of Agriculture, and
  Department of Homeland Security.
- Eligibility: NSF Graduate Research Fellows, within their five-year term, are eligible to apply. Fellows can either be "on tenure" or "on reserve" to be eligible. Fellows must have completed at least one year of their graduate program at the time of application and have one full year of graduate study remaining at the time of application. Fellows may apply to a maximum of two partner agencies per fellowship year, with one application each.
- Citizenship: Depending on the agency, applicants may need to be U.S. citizens or permanent residents.
- Award/Program Size: NSF will provide \$5,000 towards the costs of the internship including research, relocation, travel, and other expenses.
- Due Dates: Applications are due December 4 and May 6.

Source: http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=505127, accessed July 20, 2017.

## **Graduate Research Opportunities Worldwide (GROW)**

Overview: The GROW program provides travel funding for NSF Graduate Research Fellows to conduct
collaborative international research abroad with researchers in specific NSF partner countries. Current
opportunities exist in Australia, Austria, Brazil, Chile, Columbia, Denmark, Finland, France, India, Ireland,

- Japan, Korea, Mexico, the Netherlands, Norway, Singapore, Sweden, and Switzerland. NSF is not currently offering GROW in partnership with U.S. Agency for International Development (USAID) as it had previously.
- Eligibility: NSF Graduate Research Fellows, within their five-year term, are eligible to apply. Fellows can either be "on tenure" or "on reserve" to be eligible. Fellows must have completed one year of their graduate program at the time of application and must be making progress towards their degree.
- Citizenship: No special requirements beyond the GRFP requirements.
- Award/Program Size: NSF expects to award up to 400 GROW fellowships annually. NSF will provide a travel allowance of \$5,000 to cover travel and research costs.
- Due Dates: Applications are due December 4 annually.

Source: http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=504876, accessed July 20, 2017.

## **Doctoral Dissertation Improvement Grants in the Directorate for Biological Science (DDIG)**

Note: This program was eliminated in June by NSF's biology directorate due to lack of time for management.

- Overview: This program provided support for students studying areas of biology supported by the Division
  of Environmental Biology (DEB) and the Behavioral Systems Cluster of the Division of Integrative
  Organismal Systems (IOS). These grants provided partial support for doctoral dissertation research to
  participate in scientific meetings, to conduct research in specialized facilities or field settings, and to
  expand an existing body of dissertation research.
- Award/Program Size: NSF typically distributed 100 to 120 awards annually. The maximum budget per award was \$13,000 total for up to two years.
- Due Date: This program has been archived.

Source: <a href="http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=5234">http://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=5234</a>, accessed July 7, 2017.

#### Social, Behavioral, and Economic Sciences Doctoral Dissertation Research Improvement Grants (SBE DDRIG)

This program, which used to award grants to doctoral students to improve the quality of dissertation research across the Social, Behavioral, and Economic Sciences, no longer exists as a single program. However, numerous programs within the Directorate for Social, Behavioral, and Economic Sciences (SBE) have DDRIG tracks. Eligibility, award size, and due dates vary by program. Students should refer to the individual program site for more information on requirements for individual programs.

Source: http://www.nsf.gov/funding/education.jsp?fund type=2, accessed July 20, 2017.

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# **U.S. Department of Agriculture**

The U.S. Department of Agriculture's (USDA) primary mission is to regulate and implement public policy for the nation's food, agriculture, and natural resources. However, there are offices within USDA which support extramural research opportunities. The National Institute of Food and Agriculture (NIFA) is the primary extramural research and grant making agency of the USDA. Through the grants offered by NIFA, USDA is able to conduct research critical to farmers, consumers, and communities. Note that in 2008, NIFA was created as a replacement for the organization formerly known as the Cooperative State Research, Education, and Extension Service.

**Institution Awards** 

## NIFA National Needs Graduate and Postgraduate Fellowship (NNF) Grants Program

- Overview: This grant program supports training students for master's and doctoral degrees in food, agricultural and natural resource sciences and special International Study or Thesis/Dissertation Research Travel Allowances (IRTA) for eligible recipients. Awards are specifically intended to support traineeship programs that engage outstanding students to pursue and complete their degrees in USDA mission areas.
- Eligibility: Applications are solicited from institutions that confer a graduate degree in at least one of the
  following targeted expertise shortage areas: animal and plant production; forest resources; agricultural
  educators and communicators; agricultural management and economics; food science and human
  nutrition; sciences for agricultural biosecurity; and integrative biosciences for sustainable food and
  agricultural systems.
- Citizenship: Beneficiaries of the NNF award must be U.S. citizens or nationals.
- Award/Program Size: An estimated \$3.1 million will be available for the FY 2016 funding cycle. There is no commitment by USDA to fund any particular application or to make a specific number of awards.
- Due Date: Applications were last accepted on October 11, 2016. No application due date has been set for 2017.

#### Source:

• <a href="https://nifa.usda.gov/funding-opportunity/food-and-agricultural-sciences-national-needs-graduate-and-postgraduate">https://nifa.usda.gov/funding-opportunity/food-and-agricultural-sciences-national-needs-graduate-and-postgraduate</a>, accessed July 26, 2017.

**Individual Awards** 

# Agriculture and Food Research Initiative (AFRI): Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative

- Overview: This grant program "supports fellowships to undergraduate students, predoctoral candidates, postdoctoral scholars, and professional development opportunities for secondary school teachers and educational professionals." Projects must be aligned with one of the six AFRI Challenge Areas: Agricultural and Natural Resources Science for Climate Variability and Change; Childhood Obesity Prevention; Food Safety; Food Security; Sustainable Bioenergy; and Water Resources or one of the six AFRI Foundational areas: Plant health and production and plant products; Animal health and production and animal products; Food safety, nutrition, and health; Bioenergy, natural resources, and environment; Agriculture systems and technology; and Agriculture economics and rural communities.
- Eligibility: Eligibility is linked to the type of project (research, education or extension or integrated projects). Please see the website for complete information.
- Citizenship: Individuals applying must be U.S. citizens, nationals or permanent residents.

- Award/Program Size: \$18.9 million was available for awards in the FY 2016 funding cycle. Predoctoral
  Fellowship Grants are limited to a total of \$95,000 for project periods of up to two-years. The fellowship
  includes a \$25,000 annual stipend as well as \$19,500 in tuition, fees, and other educational expenses.
  Note that institutional allowance, in lieu of indirect costs, not to exceed \$3,000 per year, may be
  requested.
- Due Date: The most recent application deadline for predoctoral and postdoctoral grants was June 28, 2017.

Source: <a href="https://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiative-food-agriculture-natural-resources">https://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiative-food-agriculture-natural-resources</a>, accessed July 7, 2017.

# **U.S. Agency for International Development**

The U.S. Agency for International Development (USAID) is the primary federal agency responsible for engaging the developing world. USAID partners with the higher education community in support of solutions to key global development challenges. Passed into law in July of 2016, the *Global Food Security Act of 2016* authorized the Feed the Future Innovation Labs and a comprehensive strategy for USAID. While the Trump Administration has criticized President Obama's focus on international aid and recently proposed reductions to the Department of State overall, USAID programs enjoy bipartisan support from Congress.

#### **Individual Awards**

#### **USAID Research and Innovation Fellowship Program**

- Overview: USAID launched its Research and Innovation Fellows (RI) program as part of the U.S. Global Development Laboratory (USGDL). This program provides fellows with the opportunity to undertake research and other innovative projects at "universities, private sector corporations, research institutions, government agencies, and non-governmental organizations" in seven different countries across the developing world for a period of two to 12 months. The goal for the program is for fellows to "amplify a broad-based knowledge network, catalyze learning, and foster the positive exchange of information and experiences." Students may choose from a wide variety of specific abroad opportunities, ranging from the biological sciences to the social sciences.
- Eligibility: Applicants must be pursuing a degree at a U.S. academic institution at one of the six universities initially selected to partner with USAID for this program (Rutgers University, University of Chicago, the University of Notre Dame, University of California Berkeley, University of California Davis, and Arizona State University). Previously, NSF Graduate Research Fellows could also apply, but that partnership has been discontinued.
- Citizenship: Applicants must be U.S. citizens, nationals, or permanent residents.
- Program/Award Size: Fellows can be granted up to \$24,000 in travel funding.
- Due Date: For students attending one of the identified schools above, information regarding deadlines is available through the institution's website.

Source: https://www.usaid.gov/RIFellowships, accessed July 7, 2017.

#### **Donald M. Payne International Development Fellowship Program**

- Overview: The USAID Donald Payne Fellowship Program honors the late former congressman by providing support for graduate students interested in careers in international development. The program supports students seeking master's degrees in international affairs or subjects such as economics, development, history, political science, environmental studies, agriculture, public health, urban studies, public administration, or public policy. Applicants must commit to at least five years working for USAID as a member of the Foreign Service as a requirement of the program. The Payne Program specifically seeks applicants from minority groups historically underrepresented among international development professionals. The Program supports graduate study for students who want to work across a broad array of international development topic areas.
- Eligibility: Applicants must be U.S. citizens, be seeking admission to a two-year graduate program, and have a GPA of at least 3.2 (on a 4.0 scale) at the time of application. Applicants cannot already be enrolled in graduate school at the time of application.

- Citizenship: Applicants must be U.S. citizens. Additionally, fellowship money can only be used at U.S. institutions of higher education.
- Program/Award Size: The Payne Program provides up to \$93,000 over two years for graduate school, internships, and professional development activities. USAID awards approximately five fellowships per year.
- Due Date: Applications are annually due in January.

Source: <a href="http://www.paynefellows.org/?areaid=2&contentid=941">http://www.paynefellows.org/?areaid=2&contentid=941</a>, accessed July 7, 2017.

Internships

#### **Volunteer Student Interns**

The agency hosts both paid and unpaid internships throughout the academic year. USAID seeks undergraduate and graduate students studying a wide variety of fields. Opportunities with specific offices are posted on the USAID website as they become available. Requirements and deadlines vary by opportunity.

Source: <a href="http://www.usaid.gov/work-usaid/careers/student-internships">http://www.usaid.gov/work-usaid/careers/student-internships</a>, accessed July 7, 2017.

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# **Department of Transportation**

The Department of Transportation (DOT) oversees federal highway, air, rail, maritime, and other transportation administration activities and functions. The Office of the Assistant Secretary for Research and Technology (OST-R) oversees and coordinates DOT's research and education programs. DOT distributes research funds to state and local transportation agencies as well as academic institutions.

**Individual Awards** 

## **Eisenhower Graduate Fellowship (GRAD)**

- Overview: This program is one of the various fellowship programs under the Dwight D. Eisenhower Transportation Fellowship Program. GRAD provides students enrolled in master's and doctorate degree programs in transportation fields funding for tuition and research stipends.
- Eligibility: Applicants should be pursuing a master's or doctorate degree full-time in a transportation-related field and conducting ongoing transportation research.
- Citizenship: Students who are non-US citizens may apply for grants but must provide a certified copy of their I-20 or I-551 ID issued by the U.S. Citizenship & Immigration Service (CIS).
- Award/Program Size: The funding amount for each awardee depends on the selection and ranking from
  the National Selection Panel. Awardees may receive up to \$10,000 for tuition; master's level students may
  receive up to \$1,700 per month while doctoral level students may receive \$2,000 per month in stipends.
  The Eisenhower Transportation Fellowship Program has awarded 150 to 200 fellowships each year,
  including GRAD fellowships.
- Due Date: Applications were due August 28, 2017.

Source: <a href="http://www.fhwa.dot.gov/tpp/ddetfp.htm">http://www.grants.gov/web/grants/search-grants.htm</a>!/www.grants.gov/web/grants/search-grants.html?keywords=eisenhower, accessed July 14, 2017.

# **Relevant Agencies Not Currently Offering Graduate Student Funding**

# **Environmental Protection Agency**

Science guides the regulatory decision-making of the Environmental Protection Agency (EPA). Utilizing intramural EPA laboratories as well as the extramural research community, the EPA Office of Research and Development (ORD) conducts research on topics such as air and water quality, ecosystem assessment and restoration, climate change, impacts to human health, and pollution prevention. ORD is the research arm of EPA. EPA previously funded the Science to Achieve Results (STAR) graduate fellowships, which were discontinued in 2015. STAR supported master's and doctoral candidates in environmental studies, including traditional environmental disciplines and fields such as social anthropology, urban and regional planning, and decision sciences. The program supported about 100 new fellows each year, but was terminated as part of the Obama Administration's push for consolidation of STEM education programs. More information about EPA internship opportunities can be found at http://www.epa.gov/ncer/fellow/.

### **National Endowment for the Humanities**

Currently the National Endowment for the Humanities (NEH) does not support graduate education. There is an effort from the university community to advocate in support of NEH creating a new competitive grant program that would support faculty-graduate student collaborations similar to those found in the sciences. This program would allow students and researchers to explore areas of NEH interest such as foreign languages and cultural studies, religious histories, and the impact of globalization on teaching and scholarship, among others. Graduate students can participate in NEH-supported seminars and institutes. More information on these programs is available at <a href="http://www.neh.gov/grants/education/summer-seminars-and-institutes">http://www.neh.gov/grants/education/summer-seminars-and-institutes</a> and <a href="http://www.neh.gov/grants/odh/institutes-advanced-topics-in-the-digital-humanities">http://www.neh.gov/grants/odh/institutes-advanced-topics-in-the-digital-humanities</a>.

### **National Endowment for the Arts**

The National Endowment for the Arts (NEA) supports traditional art forms such as music, dance, and theater projects. There are also opportunities for the funding of art promotion and enhancing access to the arts to unserved or underserved populations. NEA does not currently offer any programs specifically for graduate students.

# **Appendix: Fellowship Citizenship Requirements**

# **Programs that are Open to Permanent Residents**

## **Department of Commerce**

#### **National Oceanic and Atmospheric Administration**

- Dr. Nancy Foster Scholarship Program, Page 3
- Sea Grant John A Knauss Marine Policy Fellowship, Page 4

#### **Department of Education**

- Graduate Assistance in Areas of National Need (GAANN) Program, Page 8
- Fulbright-Hays Doctoral Dissertation Research Abroad Program, Page 8
- Foreign Language and Area Studies (FLAS) Fellowships Program, Page 9

#### **Department of Energy**

- Graduate Student Research (SCGSR) Program, Page 11
- Computational Science Graduate Fellowship (CSGF) Program, Page 11

#### **Department of Health and Human Services**

- Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32), Page 14
- Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35), Page 14
- Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31), Page 15
- Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31 - Diversity), Page 15

#### **Agency for Healthcare Research and Quality**

• Health Services Research Dissertation Program, Page 17

#### **Health Resources and Services Administration**

Bureau of Health Workforce (BHW) Scholarships for Disadvantaged Students, Page 17

#### **Substance Abuse and Mental Health Services Administration**

Minority Fellowship Program, Page 19

## **National Aeronautics and Space Administration**

- NASA Space Technology Research Fellowships (NSTRF), Page 24
- NASA Earth and Space Science Fellowship (NESSF) Program, Page 24

#### **National Science Foundation**

- National Science Foundation Traineeship Program (NRT), Page 26
- International Research Experience for Students (IRES), Page 27
- Enriched Doctoral Training in the Mathematical Sciences, Page 27
- Graduate Research Fellowship Program (GRFP), Page 28

- Graduate Research Internship Program (GRIP), Page 28
  - Citizenship requirements vary based on the federal agency.
- Graduate Research Opportunities Worldwide (GROW), Page 28

# **U.S. Department of Agriculture**

 AFRI's Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative, Page 30

# **U.S. Agency for International Development**

USAID Research and Innovation Fellowship Program, Page 32

#### **Department of Transportation**

- Eisenhower Graduate Fellowship (GRAD), Page 34
  - Students who are non-US citizens may apply for grants but must provide a certified copy of their I-20 or I-551 ID issued by the U.S. Citizenship & Immigration Service (CIS).

## Programs that are Open to Citizens of Other Countries

## **Department of Defense**

- SMART Scholarship for Service Program, Page 6
  - Open to citizens of the U.S., New Zealand, Canada, Australia, or the United Kingdom.

## **Department of State**

- Fulbright Grants for Graduate Study and Research Abroad (part of the Fulbright U.S. Student Program), Page 23
  - Non-U.S. citizens may apply to either the Fulbright Commission in their country of citizenship or the U.S. Embassy in their country of citizenship.

#### **National Aeronautics and Space Administration**

- NASA Earth and Space Science Fellowship (NESSF) Program, Page 24
  - NESSF is open to all students enrolled at any U.S. university, though U.S. citizens or permanent U.S. residents will be given preference.

#### **National Science Foundation**

- Doctoral Dissertation Improvement Grants in the Directorate for Biological Science (DDIG), Page 29
  - No citizenship requirements.

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