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FELLOWSHIPS THAT PROVIDE POLICY EXPERIENCE FOR INTERESTED SCIENTISTS AND ENGINEERS

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Lewis-Burke Associates has compiled a list of fellowships geared toward faculty and graduate students who are interested in utilizing their scientific and engineering expertise in the federal policy arena. This report was compiled to help answer questions on this topic from faculty and students and provide a view of the type of opportunities that exist for people to learn more about the policy world or to transition permanently to a career in policy or government. (This document does not list every program in existence, but describes the range of program types.)

For each fellowship, the document provides the program web site, a brief description of fellowship activities, the eligibility requirements, and the duration and location of the program. For many of the fellowships, the deadline for applications is in the fall or early winter. Most of these programs are offered annually.

While many of these programs require the completion of a Ph.D. (e.g. the AAAS Science & Technology Policy Fellowships), there are several that do not (including the Christine Mirzayan Science and Technology Policy Graduate Fellowship Program, the Presidential Management Fellowships, and others). These programs offer the opportunity for enrolled graduate students to experience an interlude in a policy-focused setting to learn more about the policy world, evaluate if they are interested in changing their focus from their degree program to a more policy-focused career, or actually begin such a transition.

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FELLOWSHIP PROGRAMS

The Christine Mirzayan Science & Technology Policy Graduate Fellowship Program http://www7.nationalacademies.org/policyfellows/

About the Fellowship

During the program, fellows engage in studies and activities throughout the National Academies in Washington, DC. Some examples of projects fellows conducted in the past include:

- (1) developing an outline of themes of leading research in remote sensing applications; and
- (2) organizing a workshop on how scientists in developing countries can take better advantage of new wireless communication networks to gain access to the Internet.

Each fellow is assigned to a senior staff member who acts as his or her mentor. The first week of the fellowship program, the fellows spend the morning gaining a better understanding of how the National Academies work and the fundamentals of science and technology policy analysis. In addition, the fellows are briefed by organizations in Washington other than the National Academies who influence, make, or report on science and technology policy. After the first week, the fellows' training and educational experience continues and includes weekly events such as lunches with each of the three Academies presidents, field trips, and briefings. Fellows are encouraged to independently seek activities outside the National Academies as well. These activities can include Congressional hearings, seminars at other think tanks, shadowing federal officials or others involved in science and technology policy to observe their activities, etc.

Eligibility

Applications are invited from graduate students through post-doctoral scholars in any physical, biological, or social science field or any field of engineering, medicine/health, or veterinary medicine as well as business, law, education, and other graduate and professional programs.

Duration/Location

Fellows engage in studies and activities throughout the National Academies in Washington, DC. The fellowship program typically consists of two, 12-week sessions (January-April and September-November).

Presidential Management Fellows Program

https://www.pmf.opm.gov/

About the Fellowship

The PMF Program is designed to attract to the federal service outstanding individuals from a wide variety of academic disciplines who have an interest in, and a commitment to, a career in the analysis and management of public policies and programs. PMFs are hired for two-year internships and receive a salary and benefits. After successfully completing the two-year program, PMFs may be eligible for conversion to a permanent government position and further promotional opportunities.

The PMF application/selection process is multi-tiered. It includes the U.S. Office of Personnel Management (OPM), graduate schools, and federal agencies. The general steps are as follows:

- Graduate students complete the OPM PMF application by October 31 of the academic year in which they intend to graduate. The dean or chairperson of the student's graduate program must endorse this application.
- OPM selects PMF Finalists based on a review of written applications and performance in group and individual interviews.
- PMF Finalists apply directly to agency PMF programs. Finalist applications are then assessed based on academic performance, experience, interest, and communication skills.

Eligibility

Graduate students from all academic disciplines who expect to complete an advanced degree (master's, law, or doctoral-level degree) from a qualifying college or university by August 31 of the academic year in which the competition is held are eligible to apply to the Presidential Management Fellows (PMF) Program. The PMF Program accepts applicants from a wide variety of academic backgrounds and disciplines.

Duration/Location

PMF's receive an initial two-year appointment to an excepted service position at federal agencies (most of which are in the Washington, DC area).

Google Policy Fellowship

http://www.google.com/policyfellowship/

Overview

Fellows work at public interest organizations at the forefront of debates on broadband and access policy, content regulation, copyright and trademark reform, consumer privacy, open government, and more. Participating organizations include: American Library Association, Canadian Internet Policy and Public Interest Clinic, Cato Institute, Center for Democracy and Technology, Citizen Lab, Competitive Enterprise Institute, Creative Commons, Electronic Frontier Foundation, Future of Music Coalition, Internet Education Foundation, Joint Center for Political and Economic Studies, Media Access Project, National Hispanic Media Coalition, New America Foundation, Progress and Freedom Foundation, Public Knowledge, and Technology Policy Institute. More information about the host organizations and the areas of focus for the fellows can be found here: http://www.google.com/policyfellowship/hosts.html.

Eligibility

The Google Policy Fellowship program offers undergraduate, graduate, and law students interested in Internet and technology policy the opportunity to spend the summer contributing to the public dialogue on these issues, and exploring future academic and professional interests. Any major and degree programs are welcome to apply.

Duration/Location

Partnering organizations are based in either Washington, DC, San Francisco, CA, Ottawa or Toronto, Canada. Fellows will receive a stipend of \$7,000 for ten weeks during the summer, June-August. Exact dates of the fellowship will be worked out by the fellow and host organization.

John A. Knauss Marine Policy Fellowship

http://www.seagrant.noaa.gov/knauss/index.html

Overview

The Knauss Marine Policy Fellowship, offered through the National Oceanic and Atmospheric Administration's National Sea Grant College Program (NSGO), provides a unique educational experience to students who have an interest in ocean, coastal and Great Lakes resources and in the national policy decisions affecting those resources. The program provides fellows with an award of \$49,000.

Eligibility

Any student, regardless of citizenship, who is in a graduate or professional program in a marine or aquatic-related field at a United States-accredited institution of higher education, may apply to the NSGO through their state Sea Grant program. Applicants from states not served by a Sea Grant program should obtain further information by contacting the Knauss Sea Grant Fellowship Program Manager at the NSGO.

Duration/Location

The program matches highly qualified graduate students with "hosts" in the legislative and executive branch of government located in the Washington, D.C. area. The length of assignment is one-year. The inclusive dates of the official fellowship are February 1- January 31; however, these dates can be slightly adjusted to accommodate academic semester needs.

American Institute of Biological Sciences Graduate Student Policy Fellowship http://www.aibs.org/public-policy/policy_training.html

About the Fellowship

The American Institute of Biological Sciences (AIBS) Public Policy Office offers a unique science policy training opportunity for current biological sciences graduate students. Through the competitively selected AIBS Graduate Student Science Policy Fellowship, current graduate students are able to spend three to six months in the professionally-staffed AIBS Public Policy Office in downtown Washington, DC. During this period, the fellow is exposed to how Congress, the White House, federal agencies and the scientific community work to develop our nation's science policy. During their time in the AIBS Public Policy Office, fellows work on discrete activities that cultivate policy analysis and communication skills. Past fellows have conducted policy research related to the emergence of state science policy advisors and federal biosafety policy; written items for the AIBS Public Policy Report; and met with members of Congress and federal agencies to discuss the importance of federal funding for biological research.

Eligibility

Current and recent biological sciences graduate students.

Duration/Location

Three to six months at the American Institute of Biological Sciences office in Washington, DC.

Targeted Congressional Fellowship Programs

About the Fellowships

There are several fellowships focused on applicants and issues related to a specific group.

- Women's Research and Education Institute Congressional Fellowships http://www.wrei.org/Fellows.htm
- Asian Pacific American Institute for Congressional Studies http://www.apaics.org/index.php/pages/programs/fellowships/
- Congressional Hispanic Caucus Institute Graduate Fellowship Program http://www.chci.org/fellowships/page/chci-graduate-fellowship-program

• Congressional Black Caucus Foundation Congressional Fellows Program http://www.cbcfinc.org/fellowships/congressional-fellows-program.html

AAAS Science & Technology Policy Fellowships

http://fellowships.aaas.org/

About the Fellowship

The AAAS Fellowships help to establish and nurture critical links between federal decision-makers and scientific professionals by placing scientists in federal agencies and Congressional offices to support public policy. AAAS offers fellowships in five programmatic areas:

- Congressional (i.e. Offices of Members of Congress and Congressional Committees)
- Diplomacy (i.e. U.S. Department of State; U.S. Agency for International Development; Foreign Agricultural Service, US Department of Agriculture; Fogarty International Center, National Institutes of Health)
- National Defense & Global Security (i.e. U.S. Department of Defense; U.S. Department of Homeland Security; Federal Bureau of Investigation)
- Health, Education, & Human Services (i.e. U.S. Department of Health & Human Services; National Science Foundation; Food Safety Inspection Service, U.S. Department of Agriculture; U.S. Food and Drug Administration; U.S. Department of Education)
- Energy, Environment, Agriculture, & Natural Resources (i.e. National Oceanic and Atmospheric Administration; National Science Foundation; U.S. Army Corps of Engineers; Food Safety Inspection Service, U.S. Department of Agriculture; Forest Service, U.S. Department of Agriculture; U.S. Department of Energy; U.S. Environmental Protection Agency)

Eligibility

To apply for an American Association for the Advancement of Science (AAAS) Science & Technology Policy Fellowship, one must hold a doctoral-level degree (PhD, MD, DVM, DSc, PharmD, and other terminal degrees), in any physical, biological, health/medical or behavioral/social science, any field of engineering, or any relevant interdisciplinary field (individuals with a master's degree in engineering and at least three years of post-degree professional experience also may apply). There is no "ideal" candidate for a AAAS Fellowship. Fellows come from many different disciplines in science and engineering. They arrive from academia, industry and the non-profit sectors; and they represent a broad range of career stages, from recently graduated post-docs to mid-career professionals and faculty on sabbatical, to retired individuals.

Duration/Location

The fellowships, which are exclusively on-site assignments in the Washington, DC area, are for a 12-month period (beginning on September 1 and ending on August 31). Some fellowships may renew for a second year at the mutual agreement of the host office, the fellow, and AAAS. *Sponsor Organizations*

Congressional Program

- American Association for the Advancement of Science (AAAS)
- American Association of Colleges of Pharmacy (AACP)
- American Academy of Neurology (AAN)
- The American Ceramics Society (ACerS)
- American Chemical Society (ACS)
- American Dental Association (ADA)
- American Geological Institute (AGI)
- American Geophysical Union (AGU)
- American Institute of Physics (AIP)
- American Mathematical Society (AMS)
- American Meteorological Society (AMS)
- American Nuclear Society (ANS)
- American Psychological Association (APA)
- American Physical Society (APS)
- American Society of Agronomy (ASA)
- American Society of Anesthesiologists (ASA)
- American Society of Civil Engineers (ASCE)
- Executive Branch Program
- American Association for the Advancement of Science (AAAS)
- American Institute of Physics (AIP)
- American Psychological Association (APA)
- American Society of Mechanical Engineers (ASME)
- American Veterinary Medical Association (AVMA)

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- American Society for Microbiology (ASM)
- American Society of Mechanical Engineers (ASME)
- American Veterinary Medical Association (AVMA)
- Federation of Animal Science Societies (FASS)
- Geological Society of America (GSA)
- Institute of Electrical and Electronics Engineers-United States of America (IEEE-USA)
- Institute of Food Technologists (IFT)
- Institute of Navigation (ION)
- Materials Research Society (MRS)
- Optical Society of America (OSA)
- Population Association of America (PPA)
- SPIE-The International Society for Optical Engineering
- Society for Research in Child Development (SRCD)
- The Minerals, Metals, and Materials Society (TMS)
- Institute of Electrical and Electronics Engineers-United States of America (IEEE-USA)
- Institute of Navigation (ION)
- Society of Automotive Engineers (SAE International)
- Society for Research in Child Development

American Chemical Society Science Policy Fellowship

http://portal.acs.org/portal/acs/corg/content? nfpb=true& pageLabel=PP TRANSITIONMAIN &node_id=1291&use_sec=false&sec_url_var=region1&_uuid=aae531d2-6a0b-462f-a673-825600b815e7

About the Fellowship

The fellow works with experienced OPA staff to provide information to policy-makers on the role of science in public policy, advance specific recommendations on issues affecting the chemical enterprise, and inform and involve ACS members in the policy process. OPA staff covers a range of issues of interest to ACS members, including federal funding for scientific research; science, technology, engineering and math education; green chemistry; environmental policy; and regulatory policy.

Eligibility

Fellows may be entry-level PhDs or experienced professionals from academia, industry, or non-profits. Successful applicants must demonstrate:

- Significant familiarity with the chemical sciences or engineering disciplines (e.g., a doctorate or a master's degree and equivalent experience)
- A working understanding of the chemical community
- Interest in the public policy process, and an awareness of and sensitivity to the political, economic, and social factors that influence policy-makers
- Membership in the American Chemical Society (ACS)

Duration/Location

The American Chemical Society Science Policy Fellowship Program places one fellow in the ACS Office of Public Affairs (OPA) in Washington, DC for one to two years.

John Bahcall Public Policy Fellowship

http://aas.org/policy/John_Bahcall_Fellowship.php

Overview

The John Bahcall Public Policy Fellowship, run through the American Astronomical Society (AAS), was created to provide an opportunity for early career astronomers to gain experience in the world of science policy and serves to augment the policy advocacy programs of the society. The fellow works in partnership with the Executive Officer of AAS to coordinate the public policy activities of the Society.

Eligibility

Applicants need to have completed their Ph.D. in a program related to astronomy.

Duration/Location

The Bahcall Fellowship is currently a one-year postdoctoral level appointment.

California Science and Technology Policy Fellowship

http://fellows.ccst.us/

Overview

Offered by the California Council on Science and Technology (CCST), the California Science and Technology Policy Fellowships place professional scientists and engineers in the California State Legislature for one-year appointments. These professional development opportunities will enable fellows to work hands on with policy-makers to develop solutions to complex scientific and technical issues facing California through their interaction with the legislative process. The fellowships are ideal for qualified applicants who are interested in improving the interface between science and legislative decision-making and who want to learn the public policy decision-making process. Fellows receive a stipend of \$45,000.

Eligibility

To be eligible for the Fellowship candidates must have a Ph.D. or equivalent level degree, or an MS degree in an engineering discipline, plus at least three years post-degree experience. Applicants must be U.S. citizens or permanent residents. Active state employees and individuals who have registered as lobbyists with six months of the application deadline are not eligible.

Duration/Location

Fellows will be placed, for one year, in various offices of the California State Legislature.

ARPA-E Fellows Program

http://arpa-e.energy.gov/Jobs.aspx

About the Fellowship

Fellows support Advanced Research Projects Agency - Energy (ARPA-E) Program Directors in program creation, in addition to undertaking independent explorations of promising future research areas for the ARPA-E. Fellows engage with researchers and innovators to develop theses for high impact ARPA-E research program areas, prepare energy technology and economic analyses, and make recommendations to DOE senior management. Fellows also gain exposure to energy policy and all aspects of the energy technology development lifecycle, including scientific research, technology prototyping and development, and technology commercialization.

Eligibility

Advanced Research Projects Agency - Energy (ARPA-E) Fellows will be expected to have strong technical backgrounds and deep expertise in at least one energy technology related field. Fellows will be recent Ph.D.'s, postdoctoral researchers and recent graduates with less than three years of work experience (fellows have typically received their Ph.D. within the last three years, however, in rare cases, persons working toward a Ph.D. in an energy-relevant scientific or engineering field have been accepted). There are also positions available for Senior Fellows, who are expected to have three or more years of relevant work experience in energy innovation related fields. There is no citizenship requirement for this fellowship.

Duration/Location

ARPA-E hires approximately ten fellows and senior fellows per year to work at the ARPA-E headquarters at the Department of Energy (DOE) in Washington, DC. Fellows are full-time federal employees paid at a competitive salary based on experience and skill level and can serve for a maximum of two years.

The Hellman Fellowship in Science and Technology Policy

http://www.amacad.org/hellman.aspx

About the Fellowship

As part of the Initiative for Science, Engineering, and Technology, the American Academy has established the Hellman Fellowship in Science and Technology Policy for an early-career professional with training in science or engineering who is interested in transitioning to a career in public policy and administration. While in residence, the Hellman Fellow works with senior scientists and policy experts on critical national and international policy issues related to science, engineering, and technology. The focus of the work is on one or more of the ongoing projects under the Academy's Initiative for Science, Engineering, and Technology to which the Hellman Fellow contributes substantively.

Eligibility

Applicants must have a PhD in an area of science or engineering and have some experience or a demonstrated interest in an area related to science and technology policy. Masters degrees may be considered in the fields of engineering and computer science. Candidates must be U.S. citizens, permanent residents, or current employees of an academic or professional organization in the United States.

Duration/Location

The appointment is for a one-year term (with a possibility of renewal) at the American Academy of Arts and Sciences in Cambridge, Massachusetts.

American Political Science Association Congressional Fellowship Program http://www.apsanet.org/content_3031.cfm

About the Fellowship

Fellows serve as full-time legislative assistants on personal or committee staffs of members in the U.S. House of Representatives or the U.S. Senate. Fellows are required to assume a combination of general responsibilities and special assignments, according to the needs of the office and their areas of expertise and interest. A comprehensive orientation begins in November of each year. Toward the end of the orientation period in November, fellows begin securing assignments by interviewing for positions with the offices and committees of their choice. Office assignments as full-time legislative aides in the House of Representatives and/or Senate run from December to August. After four months, around mid-April, fellows are encouraged to switch chambers. This affords each fellow an opportunity to observe first-hand the differences in

character and procedures between the House and the Senate. Fellows remain in their second assignments until the conclusion of the fellowship in mid-August.

The American Political Science Association (APSA) Congressional Fellowship Program accepts many categories of fellows:

- 1. Political Scientists: The purpose of this fellowship is to give early- to mid-career political scientists an opportunity to learn more about Congress and the legislative process through direct participation.
- 2. Communications Scholars and Journalists: The purpose of this fellowship is to give early- to mid-career scholars and journalists an opportunity to learn more about Congress and the legislative process through direct participation. Ideal candidates should have an analytical interest in politics, communications, and public policy, and show promise of making a significant contribution to the public's understanding of the political process.
- 3. Federal Executives
- 4. Robert Wood Johnson Foundation Health Policy Fellows (see below under Robert Wood Johnson Foundation Health Policy Fellowship)
- 5. International Scholars

Eligibility

- For the Political Scientist Program
 - o U.S. citizenship or permanent U.S. residency.
 - o A PhD completed within the last 15 years or a dissertation near completion.
 - o A scholarly interest in Congress and the policymaking process.
- For the Communications Scholars and Journalists Program
 - o U.S. citizenship or permanent U.S. residency.
 - o A PhD completed within the last 15 years or will have defended their dissertation by November of the fellowship year.
 - o Preference is given to candidates without extensive Washington experience.

Duration/Location

For nine months, select political scientists, journalists, doctors, federal executives, international scholars, and health policy experts travel to Washington, DC to gain "hands on" understanding of the legislative process by serving on Congressional staffs.

USAID World Learning Democracy Fellows Program

http://www.usaid.gov/careers/fellows/fp_wldem.html

About the Fellowship

Democracy Fellows help to strengthen democratic institutions, programs, practices and activities in emerging and transitional democracies. Fellowship activities may include: working with the United States Agency for International Development (USAID) democracy and governance teams; providing policy analysis and expert advice to USAID; helping USAID to strengthen the capacities of local governments and democratic groups; supporting USAID projects to increase electoral and political participation; aiding USAID-supported legal, judicial and legislative

reforms; helping to develop USAID democracy strategies, evaluation methods and indicators; and accomplishing practical research of benefit to USAID.

Eligibility

The program recruits junior, mid- and senior-level candidates with variable professional experience and education in the field of international democracy and governance. Other requirements are analytical skills, excellent oral and written skills and cross-cultural skills. In addition, candidates for the Democracy Fellowships must indicate a commitment to, or promise for, a career in the evolving and challenging field of international democracy and governance assistance. Professional foreign language fluency may be required for some fellowships.

Duration/Location

Democracy fellowships are awarded for a one-year term, with possibilities for extension or renewal on a yearly basis for up to four years. The Democracy Fellows Program places fellows in USAID offices in Washington, DC and in USAID missions overseas.

Jefferson Science Fellows at the U.S. Department of State

http://www7.nationalacademies.org/Jefferson/

About the Fellowship

The Jefferson Science Fellows (JSF) program is administered by the National Academies and supported through a partnership between the U.S. science, technology, and engineering academic community, professional scientific societies, and the U.S. Department of State. All JSF assignments are designed in consultation with regional and/or functional bureaus within the U.S. Department of State/USAID. While in general JSF assignments involve providing up-to-date expertise in the rapidly advancing science, technology and engineering arenas that routinely impact the policy decisions encountered by the U.S. Department of State/USAID, each fellow is also expected to become conversant with the functional operation of the U.S. Department of State/USAID. Following the fellowship year, the Jefferson Science Fellow will return to his/her academic career, but will remain available to the U.S. Department of State/USAID for short-term projects over the following five years.

Eligibility

Tenured academic scientists and engineers from U.S. institutions of higher learning.

Duration/Location

Each fellow will spend one year at the U.S. Department of State or the U.S. Agency for International Development (USAID) for an on-site assignment in Washington, DC that may also involve extended stays at U.S. foreign embassies and/or missions.

Aldo Leopold Leadership Program

http://leopoldleadership.stanford.edu/fellowship-information

Overview

The Leopold Leadership Program at Stanford University enables 20 academic researchers to participate in training sessions to enhance communications skills. Media and policy specialists, leading researchers, and business leaders participate as trainers in "hands on" sessions in which the fellows are taught methods to engage and communicate with a variety of audiences. After completing the two training sessions, fellows return to their home institutions, where they are expected to engage in outreach and teach the skills they have learned to their students and colleagues. There is no direct financial award or stipend associated with the fellowship, however, travel expenses, accommodations and meals are provided.

Eligibility

This fellowship is aimed at academic researchers interested in public policy.

Duration/Location

The program is two weeks long and takes place in Washington, D.C.

Robert Wood Johnson Foundation Health Policy Fellowships Program

http://www.healthpolicyfellows.org/home.php

About the Fellowship

The Robert Wood Johnson Foundation Health Policy Fellows program provides a comprehensive experience at the nexus of health science, policy and politics in Washington, DC The program will select up to ten fellows. Beginning in September with an intensive three-anda-half-month orientation arranged by the Institute of Medicine, fellows meet with key executive branch officials responsible for health policy and programs, members of Congress and their staff, and representatives of health- and health policy-related interest groups. In November, fellows join the American Political Science Association Congressional Fellowship Program for an overview of the national political process. Fellowship assignments begin in January. During these assignments, fellows are full-time, working participants in the policy process with members of Congress. Fellows typically will: help develop legislative proposals; arrange hearings; brief legislators for committee sessions and floor debates; and staff House-Senate conferences. Fellowship assignments are supplemented throughout the year by seminars and group discussions on developing health policy, the general policy and governmental process, as well as media training and leadership development.

Eligibility

Midcareer professionals from academic faculties and nonprofit health care organizations who are interested in experiencing the health policy process at the federal level may apply. Applicants may have backgrounds in the following disciplines: allied health professions; biomedical sciences; dentistry; economics or other social sciences; health services organization and administration; medicine; nursing; public health; or social and behavioral health. Applicants must be citizens or permanent residents of the U.S. or its territories. Potential applicants must

obtain documented sponsorship from an eligible institution to support their application. Nonprofit health care organizations and academic centers are eligible sponsors.

Duration/Location

The fellowship is a 12-month residential experience in Washington, DC (beginning in September).