

Fundação Cuidar o Futuro

**FELLOWSHIP
AND
GUEST SCHOLAR
PROGRAMS**

THE WILSON CENTER



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*The Woodrow Wilson International Center
for Scholars subscribes to a policy of equal
educational and employment opportunities.*

James H. Billington, *Director*
Prosser Gifford, *Deputy Director*

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THE WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS

was created by the United States Congress as the nation's official living memorial to its twenty-eighth President. The Center seeks to commemorate both the scholarly depth and the public concerns of Woodrow Wilson through its program of advanced research and the communication it fosters between the worlds of ideas and of affairs.

The Center is located in the original Smithsonian Institution Building on the Mall between the Washington Monument and the Capitol in Washington, D.C. The Center welcomes fellows from a wide variety of professions and backgrounds for sustained periods of scholarly research and writing.

As a national institution with international interests, the Center seeks to encourage the creative use of the unique human, archival, and institutional resources in the nation's capital for fundamental studies which will illuminate our understanding of the past and present. The Center encourages historical and philosophical depth in its scholarly work; breadth of representation in its international company of fellows; and an active life of dialogue—within the Center and within Washington. The Center's program attempts to commemorate the Wilsonian connection between ideas and affairs, between intellect and moral purpose.

ORIGINS AND CHARTER

In response to a joint resolution of the Congress, President Kennedy appointed the Woodrow Wilson Memorial Commission in October 1961 to plan a national memorial to the



twenty-eighth President of the United States. The Commission recommended that the Wilson memorial include a Center for Scholars in Washington. The Ninetieth Congress passed legislation (P.L. 90-637), approved October 24, 1968, that established the Woodrow Wilson International Center for Scholars as

"... a living institution expressing the ideals and concerns of Woodrow Wilson ... symbolizing and strengthening the fruitful relation between the world of learning and the world of public affairs."

The Memorial Act placed the Center within the Smithsonian Institution under the independent administration of sixteen trustees appointed by the President, eight chosen from private life and eight from public positions. The first chairman was Hubert H. Humphrey (January 1969–May 1972); the second was William J. Baroody, Sr. (May 1972–December 1979), and the present chairman is Max M. Kampelman. Trustees *ex officio* are the Secretary of State, the Secretary of Health and Human Services, the Chairman of the National Endowment for the Humanities, the Secretary of the Smithsonian Institution, the Librarian of Congress, the Archivist of the United States, the Director of the International Communication Agency, and one member chosen by the President from within the federal government.

From its inception the Center was intended to be a joint public-private enterprise, and the legislation called for both private and public support. Private support in early 1969 made possible initial staff appointments and planning efforts; the Center depends substantially on funds from foundations, corporations, and individuals. The first public appropriation for the Center was also approved in 1969, and subsequent annual appropriations have been passed by the Congress.

The Center began operations on October 19, 1970, with the opening of its fellowship and guest scholar programs. The President of the United States officially dedicated the Center on February 18, 1971.



THE FELLOWSHIP PROGRAM

The Center accommodates up to forty-one fellows, and its aim is to be at or near full capacity throughout the year. Men and women of intellectual distinction from the United States and from other countries are selected from diverse disciplines and backgrounds to work on major projects at the Center for uninterrupted periods ranging from four months to one year or more. The Center has no permanent or tenured fellows, although certain lines of intellectual inquiry have been sustained by a succession of individuals or groups.

General Characteristics

The fellowship program reflects Woodrow Wilson's broad ideals and concerns as a scholar and statesman. As a creative scholarly institution, the Center is mainly concerned with the quality of its fellows and with the importance and originality of their individual projects. In general terms, the program of study at the Center is *advanced*, *international*, and *humanistic*.

The highest intellectual quality is the first aim of a Center of Scholars. Its essential business is the generation of scholarship at the most *advanced* level, meeting exacting professional standards.

The Center is *international* in the composition of its fellows — as befits the memorial to a President who pioneered in teaching people to reach beyond their grasp not just for international order but also for intellectual community.

The scholarship undertaken at the Center includes a strong *humanistic* component. The Center is interested in scholarship that transcends narrow specialties, and it welcomes all disciplines. Its humanistic interest does not imply preference for certain academic fields but rather a general interest in projects that include consideration of the enduring, if intangible, questions of artistic form, moral value, and higher belief — and in scholars and practitioners who seek wisdom from the anguish,



achievements, and aspiration of others — both past and present.

The Center seeks variety in disciplines and cultural perspectives. Fellows engage in no sponsored, classified, or structured group research at the Center. The fellows share a common commitment to what Woodrow Wilson once described as "the passionate search for dispassionate truth."

Qualifications

Men and women selected for appointment come from many different countries and from scholarly backgrounds in the humanities, social sciences, and natural sciences as well as from careers in law, journalism, business, diplomacy, government, and other professions and occupations.

Academic participants are normally established scholars with *doctoral* degrees in the United States or equivalent achievement in other countries and are expected to have demonstrated their scholarly development through published work beyond the Ph.D. dissertation. For participants from other fields (law, diplomacy, government, journalism, international organizations, the creative arts, and others), an equivalent degree of maturity and professional achievement is required.

Qualified individuals of all ages may apply for fellowships. The average age of fellows has been in the early forties; but they have ranged from the mid-twenties to the early seventies. Qualified scholars are eligible without regard to country of origin or citizenship.

Each fellow is expected to define and work on a single major scholarly project on a *full-time basis in Washington*. Most fellows have concentrated on book length studies, but projects which result in major articles or essays are also welcome, so long as the research and writing represent the focused exploration of an important topic.

The Center encourages variety in its subjects and approaches but seldom considers projects which represent essentially the rewriting of doctoral dissertations, the editing of papers and



documents, the preparation of textbooks, the composition of memoirs, or the writing of miscellaneous papers and reviews. The Center does not favor proposals which represent essentially (a) advocacy in the narrow and purely contemporary sense; or (b) refinement of an existing controversy, methodology, or a private language of interest only to a narrow academic discipline. Fellows' projects are normally expected to *result in publication*.

As the Center has no laboratory or field facilities, primary research in the natural sciences is usually beyond its range of interests, although projects which seek to relate the findings or methods of the natural sciences to broader social and intellectual issues are welcomed.

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ORGANIZATION

The Center's fellowships are awarded in one broadly defined and five more focused programs. The broadly defined program—History, Culture, and Society—enables the Center to attract superior projects from the entire range of scholarship in the humanities and social sciences. Thus, the Center ensures the possibility of access for those scholars whose proposed research falls outside one of the existing geographical or thematic divisions. The five other programs have been designed to encourage scholarship either on particular areas of the world or on special topics which the Board of Trustees has chosen to emphasize.

Because of its relatively small size and constantly changing population of fellows from throughout the world, the Center does not regard the fellows in any of its programs as members of an exclusive group. Fellows working in one area regularly benefit from those working in others. Meetings in one particular area of interest are generally open to all within a genuine community of scholars.



HISTORY, CULTURE, AND SOCIETY

In this program, the Center particularly welcomes projects which promise to make a major contribution to our understanding of the human condition or which attempt broad synthesis involving different fields or different cultures. The Center is receptive to projects that study the distant past as well as the recent past; to those with a comparative framework or with theoretical, philosophical, or theological dimensions; and to those in the field of international relations. Projects should generally be already underway at the time of application and should significantly extend the field of inquiry beyond previous work undertaken by the applicant.

AMERICAN SOCIETY AND POLITICS

Through this program, the Center seeks fellows with projects that develop new perspectives on the evolution of modern American society and that emphasize the interplay of ideas, values, and institutions in the emergence of our present civic culture. The Center is particularly sympathetic toward research which would treat public issues within the context of changes in the patterns of American society as a whole. Proposals should counter, so far as possible, the tendency toward the fragmentation of knowledge on American culture which results from the necessarily specialized character of intellectual life in the disciplines and professions. Projects that make use of historical perspective are encouraged.

KENNAN INSTITUTE FOR ADVANCED RUSSIAN STUDIES

Established in 1975, this program supports advanced research on both contemporary and historical subjects on Russia and the U.S.S.R. by scholars in any field of the social sciences or humanities. Kennan Institute fellows, like those of the Center as a whole, do not pursue applied



or contract research. In addition to its program of fellowships, the Kennan Institute each year offers visiting grants that provide per diem support for up to one month for scholars in Russian/Soviet studies. In the awarding of visiting grants, preference will be given to scholars who have recently completed their Ph.D.'s, and/or those who have particular need for the resources of a major research library.

LATIN AMERICAN PROGRAM

Established in 1977, this program supports advanced research by social scientists and humanists on Latin America, the Caribbean, and inter-American affairs. Although proposals on any subject will be carefully reviewed, there is particular interest in research on a number of central themes: (a) the relationship of the international economic order to domestic choices; (b) the evolution of U.S.-Latin American relations, and Latin America's international role more generally; (c) the causes and dynamics of authoritarianism, as well as the process and prospects for redemocratization; (d) the interplay between cultural traditions and political institutions; (e) the history of ideas in Latin America, especially as they bear on contemporary public policy choices; and (f) the viability of alternative development models in the area.

INTERNATIONAL SECURITY STUDIES PROGRAM

Established in 1977, this program proceeds with a broad definition of security issues. Its ultimate objective is to refine the analytical tools used in the development and evaluation of security issues. The program encourages the adoption of comparative and regional perspectives to investigate clearly defined issues against a body of hard evidence. Subjects of special interest include: weapons policy, arms control, crisis management, design and direction of military forces, comprehensive national strategy, political utility of military forces, executive-

legislative relations, public opinion and political leadership, economic implications of military activity, technological and resource imperatives in defense policies, nuclear proliferation, and deterrence theory.

EAST ASIA PROGRAM

Established in 1979, this program supports advanced research on Asian culture, history, politics, and society and on America's relations with Asia. While the primary focus is on China and Japan, proposals on other countries of Northeast and Southeast Asia are welcomed as well. The fellowship program does not concentrate on specified themes but is interested in research that will both make a significant contribution to scholarship on Asia and simultaneously place important contemporary issues in a broader historical, cultural, philosophical, or strategic context.

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DURATION OF FELLOWSHIPS

Normally, fellows cannot start their appointments until September of their fellowship year, and there is difficulty in extending appointments beyond September of the next fellowship year. Apart from these limitations the Center is flexible in terms of starting and ending dates.

Since fellowships are designed to support ambitious scholarly studies, *a minimum duration of four months* is generally required. The average duration of a fellowship is nine months, but fellowships of a full year are also common, and in exceptional cases an even longer stay is possible.

The Center reserves the right to reconsider the award of a grant if, once having received an award, a fellow decides to postpone his or her arrival beyond the time indicated on the original application. Due to the residential nature of the program, all appointed fellows must be prepared to devote full time to their research and writing in Washington, D.C., during the course of the





fellowship. All awards are made subject to conditions designed to limit concurrent extramural activities in accordance with established scholarly practices.

SELECTION PROCESS

Fellows are selected on the basis of the following criteria:

Importance and originality of the proposed project;

Scholarly capabilities, achievements, and promise;

Likelihood of the research being accomplished within the stated time;

Utility of resources available in the Washington area.

The selection of Center fellows is based upon submitted research proposals. Independent academic panels are convened annually by each program to review applications and to recommend eligible candidates to the Director. The Director then makes recommendations for the final selection of prospective fellows to the Fellowship Committee of the Board of Trustees, which then makes the final selection of fellows.

The Center holds one round of competitive selection per year. The deadline for the receipt of applications in the annual cycle is October 1, and decisions on appointment are announced by mid-February of the following year.

The competition for Center appointments is keen, and normally no more than ten percent of those who apply can be accepted.

FACILITIES

Each fellow is provided with a furnished office available on a round-the-clock, seven-days-a-week basis. The Center's quarters are located in the original Smithsonian Institution Building, on the Mall in downtown Washington. The Center has meeting rooms, a fellows' dining room, and



its own reference library. The staff includes a professional librarian, who provides for access under established interlibrary loan procedures to the major public, university, and special libraries in the area.

Pooled word processing services are available as well as typewriters and dictation and duplicating equipment. Smithsonian and other computer facilities can often be made available if fellows make known their needs prior to arrival. The Center staff can provide the fellows with information about the human and material resources of the area and with assistance in obtaining access.

A limited number of research assistants can be drawn from qualified work-study students in the Washington area. The Center librarian supervises these assistants and edits a series of *Scholars' Guides to Washington, D.C.*, which provides inventories of resources in the Washington area for research on major areas of the world.

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STIPEND AND TRAVEL POLICY

The Center has a limited amount of fellowship support. For this reason the Center strongly encourages applicants to seek concurrent sources of funding: other fellowships, foundation grants, sabbaticals or other funding from their home institution.

The Center's Board of Trustees has established a ceiling on the stipend payable to any individual. Within this limitation and its limited resources in general, the Center's policy is to attempt to meet a fellow's previous year's earned income (which does not include fringe benefits). For non-U.S. scholars the Center attempts to approximate, but does not exceed, the salaries of U.S. scholars of comparable experience and position.

In establishing a fellow's stipend, the Center uses as a base the total earned income for the past twelve months and subtracts from that amount any outside or sabbatical support which will be received during the fellowship period. That amount is then prorated on the basis of the number of months actually in residence at the



Center. The Center calculates monthly stipends for all academic fellows by dividing their yearly salaries by twelve, even if their universities pay them on a nine or ten month basis. Fellows whose twelve-month earned income is above the ceiling set by the Board will not receive a stipend larger than the prorated amount of the Center's maximum, based on the number of months in residence.

The Center attempts, where possible, to provide travel support, but because of limited resources, cannot guarantee it and therefore requests that fellows seek outside support for travel expenses. Non-U.S. fellows are expected to apply concurrently for a Fulbright Travel Grant from the U.S. Educational Commission in their own country. Only when such outside support is not available can the Center make use of its modest travel budget. When possible, the Center also attempts to pay the travel expenses for spouse and children up to the age of eighteen. Decisions on travel support are made on a case-by-case basis.

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ACTIVITIES AT THE CENTER

A fellow's allocation of time between research, writing, discussions, and other scholarly activities is an individual responsibility. One of the basic tasks of the Center, however, is the creation of an intellectual community, and since fellows form the basis of many institutionally sponsored events, each is expected to participate as fully as possible in Center activities. None of this is so burdensome as to interfere with the intensive pursuit of an individual project on a full-time basis, and the testimony of past fellows indicates that those whose projects are most successfully pursued tend to find important supplementary benefits from participation in Center activities.

These activities, to which visiting scholars and public figures are often invited, take a variety of forms. Most important are the three forms of dialogue conducted within the Center. In addition to informal lunches, there are weekly pre-luncheon discussions in the library with



distinguished speakers. Somewhat more formal and specialized are the periodic late afternoon colloquia on work-in-progress, at which fellows, sometime during the course of their stay at the Center, provide a written summary and lead a discussion on the key ideas of their work. Another fellow or an outside expert is appointed to criticize the ideas as a prelude to a more general discussion.

A third format is the evening dialogue, which brings together a mix of Center fellows, outside experts, and public servants for the sustained discussion of an important question usually requiring a variety of disciplinary, cultural, and occupational perspectives. Attendance at colloquia is generally expected; at dialogues it is voluntary and often by invitation.

Edited for a non-academic audience, the Center's *Wilson Quarterly* relies heavily on fellows, past and present, for book reviews, articles, and editorial advice. Priority is given by the *Quarterly* to publication of work stemming from a fellow's research undertaken while at the Center. The *Quarterly's* circulation of 100,000 provides an opportunity to communicate ideas to a broader national audience.

Each fellow accepting appointment at the Center is expected to pursue his or her research on a full-time basis at the Center's offices during the fellowship period. Vacations, trips, and other absences must be agreed upon by the Center. Any basic change in focus from the study proposed in the application must receive Center approval, and fellows are expected to keep the staff aware of the status and direction of their work.

THE GUEST SCHOLAR PROGRAM

First priority in the allocation of the Center's resources of both space and funding is accorded to the operation of the regular fellowship program, and initial commitments are determined in the spring of each year with the completion of the annual competition. In order to make maximum use of its facilities on a twelve-month basis, however, and to respond to



sudden needs and opportunities which sometimes present themselves independently of the annual cycle of competitive selection, the Center maintains a small guest scholar program. The program operates on a "space available" basis, after the requirements of the formal fellowship program have been met. Guest scholar appointments are normally intended for *short term use of a few months or less* on arrangement with the Director of the Center. Guest scholars do not necessarily receive financial support from the Center, although limited funding may be made available in cases of special need. Particularly favored in making such appointments are scholars working on projects related to the research supported through the Center's regular fellowship program. Information on application procedures may be obtained by writing to the Center's fellowship office.

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WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS

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A SELECTED LIST
OF
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AND AIDS
TO ADVANCED EDUCATION

for United States Citizens
and Foreign Nationals

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The African-American Institute. Seeks to further African development and to strengthen understanding between the United States and Africa. The AAI scholarship programs are all focused on human resource development in priority manpower development fields. Only African nationals are eligible for participation in these programs. For information about programs listed below, contact the AAI program representative in the African countries, the relevant African ministries, or the African-American Institute, 833 United Nations Plaza, New York, New York 10017.

1. *African Graduate Fellowship Program (AFGRAD).* Offered for postgraduate study in fields directly related to participating African countries' economic development priorities and universities' staff development needs, these fellowships are tenable in the U.S. for one academic year, and are renewable subject to satisfactory academic progress until the approved degree is obtained. Nationals of African countries who possess a bachelor's degree (second class honors or higher), *license (mention assez bien or higher)*, or an equivalent qualification may apply. Candidates are nominated by their governments. On completion of the degree objective, Fellows are expected to return to their home countries in Africa. When necessary, English language training is provided.

2. *Southern African Training Program (SATP).* Provides training awards to African nationals from Zimbabwe, South Africa, and Namibia to undertake development-related post-secondary training programs in U.S. institutions or on the African continent. Awards are available for certificate/diploma courses in technical institutions as well as for university-level study programs for associate, undergraduate, or graduate degrees. Applicants for technical school consideration should hold the appropriate secondary school credentials necessary for admission. Applicants for undergraduate university degree programs should hold a Division One or Division Two School Certificate or equivalent qualifications, including the Matriculation Certificate from the Republic of South Africa. Candidates for graduate study will be expected to have good undergraduate academic records. Candidates for study programs in the U.S. must agree to return to Africa upon completion of this approved study program.

3. *Southern African Student Program (SASP)*. Awards made to qualified candidates from the minority-ruled countries of southern Africa for a maximum duration of two years to pursue specialized training or a master's degree at an educational institution in the U.S. Candidate's proposed training must be directly relevant to future employment in Africa. Preference is given to candidates applying from independent Africa who need further training not readily available in Africa. Applications will be accepted from candidates outside Africa who have demonstrated strong academic ability and a keen commitment to work in Africa.

4. *Development Training for Portuguese-Speaking Africa Program (DTPSA)*. Development-related training grants are provided to candidates from Portuguese-speaking countries of Africa. Awards are for post-secondary study programs in priority manpower development areas that have been identified by the participating countries. All candidates must be nominated by their governments. Awards are tenable for training programs in the U.S., in Africa, or in Portugal or Brazil. Appropriate language training is also provided when necessary.

5. *Starr Foundation African Scholarship Program*. Offers a small number of short-term awards to provide managerial training in the U.S. for middle level insurance executives in African parastatal insurance companies or in government insurance regulatory bodies.

6. *Nigerian Universities Scholarship Program (NUSP)*. On behalf of the Nigerian universities, the AAI administers a small training program for Nigerian students to undertake graduate degree study programs in the U.S. All candidates under this program are directly nominated by the participating Nigerian universities.

Alliance Française de New York Scholarship Program. Citizenship: U.S. and French citizens. Scholarships for graduate study and research in all fields of knowledge. Awards enable American graduate students to extend their education in France, and French students to study in the United States. Applicants must have a working knowledge of the language in which they plan to study, and be between 20 and 30 years of age. Applications from American students must be submitted by November 1 for the following academic year; the deadline for French students is December 15. American stu-

dents enrolled at a university should contact their campus Fulbright advisor; those not enrolled at a university may apply through the Institute of International Education, Division of Study Abroad Programs, 809 United Nations Plaza, New York, New York 10017. French students may address inquiries to Commission Franco-Americaine d'Echanges Universitaires et Culturels, 9, rue Chardin, 75016 Paris, France.

American Association of University Women Educational Foundation Fellowships. For information on programs listed below, write to Educational Foundation Programs Office, AAUW, 2401 Virginia Avenue, N.W., Washington, D.C. 20037.

1. *American Fellowships.* For women who are U.S. citizens who have achieved distinction, or have demonstrated promise of distinction, in their fields of scholarly work. Postdoctoral Fellowships and Selected Professions Fellowships described below are also available to women who hold U.S. permanent resident status at the time of application. Fields unrestricted.

a. *Dissertation Fellowships.* For women PhD candidates who will have completed all pre-dissertation work by January 2 of the award year. It is expected that the fellowship would be used for the final year of doctoral work, and that the degree would be received at the end of the fellowship year.

b. *Postdoctoral Fellowships.* For women who hold the doctorate at the time of application. Preference will be given to those who hold junior academic appointments, and who plan to use the fellowship year for research leave. Preference will also be given to women whose professional careers have been interrupted.

c. *Fellowships to American Women in Selected Professions.* To assist women in their final year of professional training in the fields of law, dentistry, medicine, veterinary medicine, and architecture. Applicant must be a student at an accredited U.S. institution.

2. *International Fellowships.* For women who are citizens of countries other than the United States, and who may be expected to give effective leadership upon return to their home countries. Fields unrestricted. Approximately 35 fellowships are awarded for one year's graduate study or advanced research at an approved institution in the U.S.; six awards are made for advanced research in any country other than the Fellow's own, and are



given to women who are members in their own countries of national associations/federations affiliated with the International Federation of University Women. At the time of application, the candidate must have earned an academic degree equivalent to the bachelor's degree from a U.S. university. Satisfactory English language proficiency is required for study in the U.S.

American Cancer Society. Citizenship: U.S. or those who have legally declared their intent to become U.S. citizens. Write to Research Department, American Cancer Society, 777 Third Avenue, New York, New York 10017.

1. *Postdoctoral Fellowships.* Designed to enable young investigators to qualify for independent careers in cancer research. Applicants shall have been awarded a doctoral degree prior to the activation date of the grant. Application must be endorsed by the applicant's mentor and the head of the department in which the training will be received. A plan of training (didactic, teaching, research, etc.) must be formulated and agreed upon by the mentor and applicant, and described in detail in the application. Tenure may be for one or two years; under exceptional circumstances, a grant may be renewed or a fellowship provided for more than two years.

2. *Special Postdoctoral Fellowships.* Under exceptional circumstances the Society will award a Special Postdoctoral Fellowship to provide educational opportunities to qualified postdoctoral (MD or PhD) candidates to prepare them for careers in clinical investigation at the basic science levels. The program of instruction should allow the candidate to continue his research activities while completing, on an extended schedule if necessary, the requirements for the second degree. A plan of training and research must be formulated and agreed upon by the candidate and his/her mentor. This plan must be described in detail in the application. These fellowships may be awarded for any period of time up to five years and are not renewable.

The American Cancer Society also sponsors *Clinical Fellowships* and *Junior Faculty Clinical Fellowships*. Write to the above address for details.

American Cancer Society, Eleanor Roosevelt International Cancer Fellowships. Citizenship unrestricted. Level: postdoctoral. Awarded to investigators who have demonstrated their ability for independent research and who wish to broaden their experience by a period of study at a single institution in another country. Granted only to per-

sons on the staff of universities, teaching hospitals, research laboratories, or similar institutions who are devoting themselves either to experimental or clinical aspects of cancer research. Stipend will be based on the current salary of the applicant and the salary of persons of comparable qualifications in the place where the applicant expects to study. Allowance will be made for cost of travel of the Fellow and of those dependents who will accompany him/ her from his/ her place of residence to the institution where he/ she will work, and return. Write to Director, Geneva Office, International Union Against Cancer, rue du Conseil-Général, 3, 1205 Geneva, Switzerland.

American Council of Learned Societies. Citizenship: Citizens and permanent residents of the United States; citizens and permanent residents of Canada eligible for grants for research on East European areas, and grants for advanced training in Chinese studies. Level: Postdoctoral or equivalent. Write to American Council of Learned Societies, 800 Third Avenue, New York, New York 10022.

1. *Fellowships* for study and research in the humanities broadly defined to include programs in the natural and social sciences with humanistic emphasis.

2. *Grants* in the humanities and social sciences for research on pre-1910 China and East European areas.

3. *Grants* for advanced training in Chinese studies.

American Heart Association. Citizenship: Citizens or permanent residents of the United States (Established Investigatorships and Clinician-Scientist Awards); U.S. citizens (British-American Research Fellowships). Level: Postdoctoral. Field: Cardiovascular function and disease and allied fundamental problems. Write to Director, Division of Research Awards, American Heart Association, 7320 Greenville Avenue, Dallas, Texas 75231.

1. *Established Investigatorships.* A five-year award for physicians and scientists who are qualified to conduct independent research, and who have had three years of postdoctoral research experience. Awards are ordinarily made to individuals under 40 years of age at the time of application.

2. *Clinician-Scientist Awards.* A three-to-five-year award for physicians who have completed at least three years of postdoctoral clinical training, and will usually have qualified for specialty board certification upon award activation. Candidates are

not expected to have had extensive research experience, but should show evidence of a strong interest or potential in a career of investigative medicine. Holders of the MD/PhD degrees without substantial postdoctoral training will also be competitive. Awards are ordinarily made to individuals under the age of 35 at the time the awards are activated, usually the year following completion of clinical training.

3. *British-American Research Fellowships.* A one-year award for additional research training in Great Britain for persons who have had two years of postdoctoral research training. Awards are ordinarily made to individuals under the age of 35 at the time of application.

American Heart Association — Affiliates and Chapters. Postdoctoral fellowships and investigatorships in the field of cardiovascular function and disease and allied fundamental problems. Programs, stipends, and application deadlines vary from state to state. For further information, write to Executive Director of nearest affiliate or chapter Heart Association.

American Institute of Architects. Citizenship: unrestricted. Levels: undergraduate and graduate.

1. *AIA Minority Disadvantaged Scholarship Program.* Provides scholarships for students from minority and/or disadvantaged backgrounds who would not otherwise have the opportunity to be enrolled in professional architectural studies. Students who have completed high school (or its equivalent), students in junior college or technical school, and students who, during the year of the application, are enrolled in the first year of professional studies are eligible. Initially, candidates must be nominated by one of the following organizations or persons: an individual architect or firm, an AIA component, a community design center, a guidance counselor, the dean or administrative head of an accredited school of architecture, or the director of a community or civic organization. Candidates must gain admission to an accredited school of architecture before award can be accepted. Write to Director, Education Programs, The American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006.

2. *AIA Undergraduate Scholarships.* For use in either of the last two years of any first professional degree program in schools accredited by the National Architectural Accrediting Board, or in schools accredited in Canada. Awards based on

scholarship and need. Information and application forms are available through any accredited school.

3. *AIA Postgraduate Fellowships.* For practitioners and educators in architecture who have received the Bachelor's or Master's degree in Architecture, for continuation of architectural studies, for special studies or research. Also applies to non-registered interns, whose applications must include a recommendation from their former deans or scholarship committees. Awards based on scholarship and need. Write to Scholarship Program, The American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006.

American Institute of Indian Studies. Citizenship: United States. Levels: Graduate and postdoctoral. Purpose: To support existing Indian studies in the U.S. by helping to improve teaching, by encouraging the further dissemination of Indian studies in U.S. education, and by promoting and assisting research on India. Write to American Institute of Indian Studies, Dr. Edward C. Dimock, Jr., President, South Asia Language and Area Center, University of Chicago, Chicago, Illinois 60637.

1. *Junior Research Fellowships.* Awarded to graduate students specializing in Indian studies who have completed all requirements for the doctorate except the writing of the dissertation, for which they wish to do research in India.

2. *Language Study Fellowships.* For advanced study in India. Awarded to graduate students in South Asian studies who will have completed at least 240 hours of study of a modern language of India before entering on fellowship tenure. Program of study is for a nine-month period.

3. *Faculty Research Fellowships.* Postdoctoral level. Awarded to established scholars in Indian studies for study in India.

4. *Faculty Training and Library Service Fellowships.* Postdoctoral level. Awarded to scholars who are not Indian specialists but who wish to have Indian study experience so that they may introduce Indian material in their teaching; and to librarians who wish to improve their knowledge of Indian bibliography.

American Lung Association. Offers fellowships, as described below, in the field of lung disease. Write to Director of Medical Affairs, American Lung Association, 1740 Broadway, New York, New York 10019.

1. *Edward Livingston Trudeau Fellowships.* Citizenship: United States. Awarded to physicians

who have completed graduate training in the field of lung disease and who have appointments in medical schools. Purpose: To give promising instructors an opportunity to remain in academic medicine and to prove themselves as teachers and investigators. Renewals are possible for a total of three years of support.

2. *Training Fellowships*. Citizenship: U.S. and Canadian; holders of bona fide U.S. permanent visas. Offered to physicians entering the second or later year of residency in internal medicine, pediatrics, thoracic surgery, or other specialties, including basic sciences, relevant to lung disease, and to holders of other degrees, for further training as scientific investigators in this field. Purpose: To assist careers in the prevention and control of lung disease. Priority will be given to applicants interested in academic careers. Renewal is possible for a total of two years of support.

The American Museum of Natural History. The programs listed below are administered by the Museum; for information about them, write to The American Museum of Natural History, Central Park West at 79th Street, New York, New York 10024. Citizenship unrestricted.

1. *The Lerner Fund for Marine Research*. Provides modest financial assistance, normally unavailable from large foundations and granting agencies, to scientists starting careers in marine biology. The awards can be used for marine biological research anywhere in the world. Level: Graduate and post-doctoral. Write to The Lerner Fund for Marine Research at the address given above.

2. *Frank M. Chapman Fund*. Provides grants-in-aid for ornithological research, and also post-doctoral fellowships. While there is no restriction on who may apply for grants-in-aid, the Committee particularly welcomes and favors applications from graduate students; projects in game management and medical sciences are seldom funded. Applications are due on September 15 and February 15. Write to the Frank M. Chapman Memorial Fund Committee at the address given above.

3. *Theodore Roosevelt Memorial Fund*. Provides financial assistance to individuals conducting research in North America in any phase of wildlife conservation or natural history related to the activities of the American Museum of Natural History. Awards are intended to aid younger scientists, especially graduate students and individuals with recent graduate degrees, though there are no re-

strictions on the formal qualifications of applicants. Write to the Theodore Roosevelt Memorial Fund at the address given above.

The American/Scandinavian Foundation. For information on programs 1 and 2 below, write to Exchange Division, The American/Scandinavian Foundation, 127 East 73 Street, New York, New York 10021.

1. *Fellowships and Grants for Study in Scandinavia.* Citizenship: United States. The Foundation administers a number of fellowships and grants, offering awards to outstanding young American men and women for advanced study in their fields of specialization in the Scandinavian countries (Denmark, Finland, Iceland, Norway, and Sweden). Candidates must have completed their undergraduate education at the time the overseas program begins, and must provide an explanation of the special merit of pursuing the study program in Scandinavia. Awards are intended to assist younger scholars in reaching degree objectives. Criteria for selection include: the merit and feasibility of the plan of study, the qualifications of the applicant to pursue the program, and a preference for candidates not previously favored by an ASF award. No applications should be made for study at English-language institutions, nor for beginning studies of any subject matter, including Scandinavian languages.

2. *George C. Marshall Fund in Denmark.* Citizenship: United States. Established to enable young Americans to study in Denmark or to undertake special training or observation in their fields. Awards for: 1. A professional study program lasting normally a minimum of three months, open to candidates in all fields; 2. Graduate or undergraduate research in supervised Danish study programs of one academic year's duration. Students up to age 40 may apply; preference will be given to younger candidates who have not studied in Denmark. A working knowledge of Danish is required in certain fields; in others, a knowledge of Danish, while desirable, may not be necessary. Candidates must justify the merit of undertaking their programs of study in Denmark.

3. *ASF Awards for Scandinavians.* Citizenship: Denmark, Finland, Iceland, Norway, and Sweden. The Foundation offers a limited number of awards (usually at the graduate level) for Scandinavians to undertake study or research programs in the United States. Candidates for awards are recommended to

ASF by the following cooperating organizations: Danmark-Amerika Fondet, Nytorv 9, 1450 Copenhagen K, Denmark; Suomi Amerikka Yhdistysten Liitto, Mechelininkatu 10 A 10, 001 00 Helsinki 10, Finland; Islenszk-Ameríska Félagid, P.O. Box 7051, Reykjavik, Iceland; Norge-Amerika Foreningen, Drammensveien 20 C, Oslo 2, Norway; Norges Teknisk-Naturvitenskapelige Forskningsråd, Gaustadalleen 30, Postboks 279 Blindern, Oslo 3, Norway; Sverige-Amerika Stiftelsen, Grev Turegatan 14, 114 46 Stockholm, Sweden. Write to one of the above organizations, or to the Exchange Division of the American/Scandinavian Foundation.

The Arthritis Foundation. Citizenship: Unrestricted; however, non-United States citizens will not be supported to work in other countries, and each must be recommended by a supervisor in the U.S. who must indicate a special desire to have the applicant work with him/her. For information on programs listed below, write to Research Department, The Arthritis Foundation, 3400 Peachtree Road, N.E., Atlanta, Georgia 30326.

1. *Research Fellowships Related to the Rheumatic Diseases.* Purpose: To advance the training of young men and women of promise in their investigative or clinical teaching careers as they relate to the rheumatic diseases.

a. *Postdoctoral Fellowships.* Candidate must have earned a Doctor of Medicine, Doctor of Philosophy, Doctor of Osteopathy, or equivalent degree; must plan to pursue a program of study in the rheumatic diseases.

b. *Senior Fellowship Awards.* Made to support individuals who have demonstrated outstanding competence in academic medicine. Candidate must plan to pursue a program of advanced study in the rheumatic diseases, which may vary from one of clinical scholarship, to a combination of clinical and laboratory investigation, to a program of exclusive laboratory work; must have a doctoral degree or equivalent, with a minimum of three years of postdoctoral training; must be sponsored by an institution in the U.S.

2. *Arthritis Fellowships for Allied Health Professionals.* Designed to involve nurses and other health professionals in arthritis research, teaching, and implementation of creative patient care services. Applicants must have relevant professional expertise, or a Master of Science or Master of Arts, or other equivalent degree, or earn such a degree through the fellowship; MD's or PhD's are not

eligible. During the fellowship period, a research project must be pursued under a supervisor who possesses recognized expertise in the candidate's specific field of research. Each Fellow is expected to devote full time to clinical investigation, field studies, or training.

California Student Aid Commission Graduate Fellowship Program. Citizenship: Citizens and permanent residents of the United States who are legal residents of California. Offers fellowships, to cover tuition and fees only, for residents of California who attend a graduate or professional school located in California which has been fully or provisionally accredited by the Western Association of Schools and Colleges or the California State Bar. Selection of Fellows is based on critical manpower needs in California, and on the academic and disadvantage characteristics of each applicant. The amount of each fellowship is determined after a review of each applicant's personal and parental financial information, regardless of the applicant's independent status. Fellowships may be used for studies leading to recognized graduate and professional degrees in the following academic areas: allied health professions, arts and humanities, business administration, dentistry, education, law, medicine, science and science professions, and social sciences. Write to Director, Graduate Fellowship Section, California Student Aid Commission, 1410 Fifth Street, Sacramento, California 95814.

Canadian Heart Foundation Research Awards. Citizenship unrestricted. Awards described below are normally tenable in Canada or by Canadian residents abroad. Write to Canadian Heart Foundation, Suite 1200, One Nicholas Street, Ottawa, Ontario K1N 7B7, Canada.

1. *Research Fellowships.* Purpose: to provide funds for research development and training in the cardiovascular field. Levels: graduate and postdoctoral. Applicant must arrange for admission to an approved institution and must submit a statement of acceptance from the department or other head.

2. *Research Scholarships.* Purpose: to support individuals who have demonstrated ability for research and desire to undertake independent research in the cardiovascular field. Level: applicant must have the MD or PhD degree or the equivalent. Applicant must be proposed by a university or affiliated institution which is expected to guarantee the

applicant an appropriate rank if he/she is awarded a scholarship.

Carnegie Institution of Washington Fellowships. Citizenship unrestricted. Established to encourage in the broadest and most liberal manner investigation, research, and discovery, and the application of knowledge to the improvement of mankind. Levels: Postdoctoral, and by special arrangement with universities to undertake thesis research, predoctoral. Fields: astronomy, astrophysics, geophysics and geochemistry, genetic and molecular studies, morphogenesis, and plant biology. Research to be undertaken at one of the Carnegie Institution's research centers. Catalogue available. Write to Director of department in field of applicant's choice: Department of Embryology, 115 West University Parkway, Baltimore, Maryland 21210; Geophysical Laboratory, 2801 Upton Street, N.W., Washington, D.C. 20008; Hale Observatories, 813 Santa Barbara Street, Pasadena, California 91101; Department of Terrestrial Magnetism, 5241 Broad Branch Road, N.W., Washington, D.C. 20015; Department of Plant Biology, 290 Panama Street, Stanford, California 94305.

The Jane Coffin Childs Memorial Fund for Medical Research — Postdoctoral Fellowships. Citizenship unrestricted; awards to foreign nationals made only for work in the U.S.; awards to U.S. citizens tenable in the U.S. or any foreign country. Established to further research into the causes, origins, and treatment of cancer. Open to individuals holding the MD or PhD degree in proposed field of study (or equivalent in training and experience). Preference is given to applicants under 30 years of age with not more than two years of postdoctoral experience. Applicants must obtain prior sponsorship of the laboratory at which they expect to work. Write to Office of the Director, The Jane Coffin Childs Memorial Fund for Medical Research, 333 Cedar Street, New Haven, Connecticut 06510.

Consortium for Graduate Study in Management Fellowships for Minorities. Citizenship: U.S. citizens who are Black, Chicano, Cuban, American Indian, or Puerto Rican. Established to hasten the entry of minorities into management positions in business via the Master of Business Administration (MBA) degree. All minority seniors and graduates of accredited colleges are invited to apply, regardless of their undergraduate majors. Previous work or study in business or economics is not a require-

ment for admission to this program. The Consortium offers Summer Business Internships, providing practical experience at the managerial level in one of the sponsoring companies, as part of its services. Fellowships are tenable at the following Consortium institutions: Indiana University, University of North Carolina (Chapel Hill), University of Rochester, University of Southern California, Washington University (St. Louis), and the University of Wisconsin. Applications are accepted throughout the year. Application should be made about two months before the beginning of the term the MBA program is to start. Write to Director, Consortium for Graduate Study in Management, 101 North Skinker Boulevard, Box 1132, St. Louis, Missouri 63130.

Council for International Exchange of Scholars.

For information on programs listed below (with the exception of the Fulbright Awards for non-U.S. Scholars and NATO Fellowships for non-U.S. nationals), write to Council for International Exchange of Scholars, Suite 300, Eleven Dupont Circle, Washington, D.C. 20036.

1. *Fulbright Awards for University Teaching and Advanced Research.* Administered on behalf of the U.S. International Communication Agency.

a. *American Scholars.* About 500 postdoctoral awards a year available in more than 100 countries. Wide range of academic and professional fields as planned by Fulbright agencies abroad. Announcement of openings in March and April, 12-18 months in advance.

b. *Non-U.S. Scholars.* More than 500 postdoctoral awards available each year. Information should be obtained in the inquirer's own country from the Cultural Affairs Officer of the U.S. Embassy or from the local binational Educational Commission or Foundation.

2. *Indo-American Fellowship Program.* Applicants must be U.S. citizens at the postdoctoral or equivalent professional level. For advanced research in India, 2-10 months, in any field; some field preferences expressed each year by the Indo-American Subcommittee on Education and Culture.

3. *Spain Postdoctoral Research Fellowships.* Applicants must be U.S. citizens, with PhD or equivalent and Spanish language fluency appropriate to project. For advanced research in Spain, 4-10 months, in arts, education, humanities, and social sciences, under provisions of the Treaty of

Friendship and Cooperation between the U.S. and Spain.

4. *North Atlantic Treaty Organization (NATO) Advanced Research Fellowships.* For projects of a historical, political, economic, or social nature of direct interest to the Atlantic Community. American scholars should write to CIES at address above; nationals of other NATO member countries may write to the Assistant Secretary General for Scientific Affairs, NATO, 1110 Brussels, Belgium.

Council for Opportunity in Graduate Management Education — COGME Fellowships. Citizenship: U.S. citizens who are Afro-Americans, American Indians, Asian Americans, and Hispanic Americans. Established to promote the flow of minority group members into significant managerial positions in public and private organizations. Applicant must be accepted as a candidate for a master's degree in management by at least one of the following member institutions: University of California-Berkeley, Carnegie-Mellon University, University of Chicago, Columbia University, Cornell University, Dartmouth College, Harvard University, Massachusetts Institute of Technology, University of Pennsylvania, and Stanford University. Fellowships are tenable only at these schools. Write to COGME Fellowships, Central Plaza, 675 Massachusetts Avenue, Cambridge, Massachusetts 02139.

The Diuguid Fellowships. Citizenship: U.S. citizens who are women residents of the Southern region of the U.S. Level: Undergraduate and graduate; the study program must lead to an academic degree — AA through PhD. A developmental program for mature women whose careers and professional goals have been deferred due to marriage or other reasons. The fellowships make funds available for one year of intensive retraining or concentrated study on a full-time or part-time basis. Available to women who can demonstrate that a year of formal study, internship, or independent effort can benefit them directly in pursuit of significant careers. Additional qualifications: 1. Must be over 21 years of age and have had an interruption in her career; 2. Must demonstrate financial need of the assistance. Write to The Diuguid Fellowships, Suite 484, 795 Peachtree Street, N.E., Atlanta, Georgia 30308.

Amelia Earhart Fellowships. Citizenship: Offered to women in all countries. Sponsored by Zonta

International to encourage and support study and research by young women scientists, and to improve the status of women. Level: Graduate. Fields: Aerospace-related sciences and engineering. Candidate must have earned a bachelor's degree, or the equivalent, in a discipline preparatory to advanced work in any of the many aerospace-related fields; must show promise of original research; and must gain acceptance by a qualified graduate school. Write to Zonta International, 59 East Van Buren Street, Chicago, Illinois 60605.

East-West Center. Citizenship: United States; Asian and Pacific-area countries. Formally known as "The Center for Cultural and Technical Interchange Between East and West," the East-West Center offers awards for participation in Center programs conducted within five problem-oriented Institutes — Communication, Culture Learning, Environment and Policy, Population, and Resource Systems. The content of these programs is based on mutual problems which significantly affect relations and understanding among countries of East and West. Projects are designed to integrate the cooperative efforts of researchers, mid-career leaders, and professionals who contribute and exchange their knowledge and expertise, and graduate students who gain experience by participating in Center projects while studying for advanced degrees, primarily at the University of Hawaii. All projects are designed and conducted in cooperation with institutions, universities, and agencies from throughout Asia, the Pacific, and the U.S., and all work at the Center is conducted in English. The Center provides awards in five categories:

1. *Fellows.* Scholars and authorities who have engaged in research and development activities on problems of interest to the Center are invited from research organizations, universities, government administration, private enterprise, and the arts to participate in specific Center projects. Ninety to 120 such awards are made yearly.

2. *Research and Professional Interns.* Research Intern awards are provided to researchers in various stages of their careers for supervised practical experience in specific Center projects. Professional Intern awards are provided to potential leaders seeking to develop managerial and practical skills in the specialized areas of research, development, and dissemination of knowledge for supervised practical experience in specific Center projects.

Sixty to 90 such awards are made yearly, by invitation, nomination, or application.

3. *Professional Associates.* Participants include policy makers, public officials, scholars, and managers from business, government, and education. They share knowledge and experiences in specific Center projects designed to apply research results to practical problems; develop and demonstrate policy aids, curricula, and other educational materials; and explore policy applications of new knowledge. Approximately 800 to 1,000 awards are made yearly by either invitation, nomination, or application.

4. *Graduate Degree Students.* Graduate students participate in research and development projects in the Center's problem-oriented programs or in Open Grants activities, while also studying for advanced degrees in a wide variety of disciplines offered at the University of Hawaii. About 100 to 120 new awards are made yearly.

5. *Joint Doctoral Research Interns.* Doctoral students who have completed all course requirements at institutions in the U.S., Asia, or the Pacific gain supervised practical research experience in specific Center projects directed toward completion of their dissertations. The specific conditions for these awards are spelled out in an agreement among the Center, the doctoral candidate, and the degree-granting institution. Twenty to 25 such awards are made yearly, by invitation, nomination, or application.

Educational Commission for Foreign Medical Graduates. Residencies and fellowships in accredited training programs in United States hospitals are available to graduates of medical schools outside the United States and Canada. Candidates must have been graduated from a medical school listed in the WHO World Directory of Medical Schools, must pass the ECFMG examination, and must apply directly to the hospitals in which they are interested. For information about the ECFMG examination, write to Educational Commission for Foreign Medical Graduates, 3624 Market Street, Philadelphia, Pennsylvania 19104.

European Organization for Nuclear Research (CERN). Citizenship: Candidates for fellowships must be nationals of Member States (12 European countries); individuals of any nationality may apply for Scientific Associate appointments. Level: All candidates must have postgraduate research exper-

ience in nuclear physics. Fields: Fundamental theoretical and experimental studies of sub-nuclear physics phenomena and related development and research in the applied sciences, engineering, and computer technology. Write to Fellows and Associates Service, European Organization for Nuclear Research (CERN), 1211 Geneva 23, Switzerland.

European Space Agency Fellowships. Citizenship: Open to nationals of Belgium, Denmark, France, The Federal Republic of Germany, Ireland, Italy, The Netherlands, Spain, Sweden, Switzerland, and the United Kingdom. Level: Candidate should have sufficient postgraduate experience to be able to undertake independent research. Fields: space science, space applications and technology. Purpose: to provide for and promote collaboration among European nations in space research and space technology, exclusively for peaceful purposes. Locations for fellowship tenure:

1. *Internal Fellowships*

a. European Space Research and Technology Centre (ESTEC), Noordwijk aan Zee, The Netherlands.

b. European Space Operations Centre (ESOC), Robert-Bosch-Strasse 5, 61-Darmstadt, Germany.

2. *External Fellowships*

a. European universities and institutes.

b. American universities and National Aeronautics and Space Administration (NASA) centers, when the proposed research cannot be carried out in Europe under as favourable conditions.

Write to Education Office, European Space Agency, 8-10, rue Mario Nikis, 75738 Paris Cedex 15, France.

Fight for Sight. Citizenship: United States; limited support to foreign nationals under exceptional circumstances. Write to Fight for Sight, Inc., 139 East 57 Street, New York, New York 10022.

1. *Student Fellowships.* Awarded to students of medicine and the basic sciences who, in the opinion of faculty members at their institutions, are promising candidates for research careers in the field of ophthalmology or its related sciences. Generally awarded for a period of from 60 to 90 days during the summer months, or other free period, for work to be conducted on a full-time basis.

2. *Postdoctoral Research Fellowships.* Awarded to promising scientists, interested in academic careers in basic or clinical research in the field of ophthalmology or its related sciences, to allow

them the opportunity to advance their training and to engage in research on a full-time basis.

Food and Agriculture Organization (FAO) of the United Nations. Fields of study for programs listed below: agriculture, fisheries, forestry, nutrition, agricultural economics, and statistics.

1. *Technical Assistance Fellowships.* Open to nationals of countries with which agreements have been signed under the United Nations Development Programme or Trust Fund arrangements with various donor countries. Designed to equip qualified personnel to aid technical, economic, and social development of their own countries. Candidates must have basic and technical education and practical experience in field of fellowship. Awarded only as part of specific projects of technical assistance. Contact FAO representative in home country.

2. *Andre Mayer Research Fellowships.* Open to nationals of all member countries for carrying out selected research projects within the framework of FAO's current Programme of Work. Available to experienced and highly qualified research workers for independent research. Awarded only through governmental designation. Contact FAO representative in home country or FAO National Committee.

German Academic Exchange Service (DAAD). Citizens of United States. Write to German Academic Exchange Service (DAAD), New York Office, 1 Fifth Avenue, New York, New York 10003.

1. *Study and Research Program.* Full scholarships, including international travel, provided in all fields (except medicine) and the arts for 7 to 10 months during the academic year at German institutions of higher learning. Candidates must hold bachelor's degree at time of award; may hold PhD (provided it was obtained no earlier than 3 years prior to the beginning of the scholarship term); must be between the ages of 18 and 32; and must have good command of the German language. Application must be made 12 to 15 months prior to expected start of tenure. For application forms and deadline information, enrolled students should contact the Fulbright Program Advisor on campus; at-large applicants should write to IIE, 809 United Nations Plaza, New York, New York 10017. General inquiries may be addressed to DAAD at address given above.

2. *Short Term Research Program.* Provides dissertation or postdoctoral research opportunities for 2 to 6 months during calendar year. For advanced

graduate students and recent PhD's between the ages of 18 and 32. Good knowledge of German language required. No international travel funds provided.

3. *Study Visits.* Provide opportunities for research projects lasting up to 3 months during the calendar year. At least 2 years of teaching and/or research experience after the PhD required. Provides for travel inside Germany, but no international travel.

John Simon Guggenheim Memorial Foundation Fellowships. Citizenship: There are two annual competitions — one open to citizens and permanent residents of the United States and Canada; the other, to citizens and permanent residents of all the other American states, of the Caribbean, of the Philippines, and of the French, Dutch, and British possessions in the Western Hemisphere. Fields: Unrestricted. Purpose: To improve the quality of education and the practice of the arts and professions, to foster research, and to provide for the cause of better international understanding. Awarded to men and women of high intellectual and personal qualifications who have already demonstrated unusual capacity for productive scholarship, or unusual creative ability in the fine arts. Write to the President, John Simon Guggenheim Memorial Foundation, 10 Park Avenue, New York, New York 10016.

The Harkness Fellowships of The Commonwealth Fund of New York. Citizenship: Australia, New Zealand, United Kingdom. Purpose: To promote international understanding by enabling students to study and travel in the United States. Age limits: For Australia and New Zealand, age 21 to 30; for U.K., the upper age limit is extended to 33 for those qualified in medicine or employed in the Civil Service or the media. Fields are unrestricted, but candidates must have a degree or equivalent qualification conferred by a professional body, or an outstanding record of achievement in the creative arts, journalism, business, or other comparable career. Awards are for a period of 12 to 21 months. Further details for the British awards may be secured from: Harkness House, 38 Upper Brook Street, London W1Y 1PE, England; for Australia from: Mr. L. T. Hinde, Reserve Bank of Australia, Box 3947 G.P.O., Sydney, N.S.W. 2001, Australia; for New Zealand from: Mr. Ian Baumgart, 22 Onehuka Road, Lower Hutt, New Zealand.

Fannie and John Hertz Foundation Fellowships. Citizenship: United States. Offered to outstanding students in the applied physical sciences for the support of personal and institutional expenses during graduate education directed toward the PhD degree. Awarded on the basis of undergraduate and, in some cases, early graduate academic and research performance, personal and institutional recommendations, and results of an interview with an applied physical scientist representing the Hertz Foundation. Fellowship renewal is made annually on the basis of satisfactory progress toward the PhD for a total of three years, with a fourth year extension under unusual circumstances. Hertz Fellows may undertake graduate study at one of the following institutions: campuses of the University of California (with particular reference to the Department of Applied Science, Davis/Livermore), California Institute of Technology, Carnegie-Mellon University, Massachusetts Institute of Technology, Rensselaer Polytechnic Institute, Stanford University, Vanderbilt University, Polytechnic Institute of the City College of New York, University of Rochester, and the Courant Institute of Mathematical Sciences of New York University. Deadline for receipt of applications is November 1 of the academic year preceding proposed commencement of tenure. Potential applicants should contact the Office of the Graduate Dean at their institutions, or write directly to the Hertz Foundation, P.O. Box 2230, Livermore, California 94550.

Hughes Aircraft Company Fellowships. Citizenship: United States. Level: Graduate. Fellowships as described below are awarded on a nationwide competitive basis to highly qualified individuals for study at selected universities. Two fellowship plans are available: 1. Work-Study Plan — Allows Fellows to acquire work experience at a Hughes Aircraft facility along with a half-time academic program, and to earn an income during the school year; 2. Full-Study Plan — Allows Fellows to devote full time to academic work during the school year. Both plans include ten to twelve weeks of full-time employment at a Hughes Aircraft facility prior to beginning fellowship tenure and during summer vacations.

1. *Doctoral Fellowships.* Six to ten awards for study leading to a doctoral degree. Applicant must have a master's degree (or equivalent) in engineering, mathematics, or physics; must be qualified to pursue graduate work in electrical, mechanical, or

aeronautical engineering; computer science, mathematics, physics, or applied physics (emphasis on electronics and related disciplines). Fellows are expected to complete the doctoral program in two to three years of work-study plus one year of full study for the dissertation, or in three years of full-study effort.

2. *Engineer Degree Fellowships.* Up to twenty awards for study leading to the Engineer Degree. Applicant must have a master's degree in an appropriate field of engineering. This program is particularly suited to those desiring study beyond the master's degree, but whose career objectives do not require the specialized research emphasis of a doctoral degree program. Fellows are expected to complete the Engineer Degree program in one year of full-study or two to three years of work-study effort.

3. *Master's Fellowships.* Approximately 100 awards leading to a master's degree. Applicant must be qualified to pursue graduate work in electrical, mechanical, aeronautical, aerospace, or systems engineering; mathematics, physics, computer science, engineering science, or engineering physics (emphasis on electronics and related disciplines). Most awards are work-study fellowships; Fellows attend selected universities near Hughes Aircraft facilities. A few full-study awards are made to students attending universities in other parts of the country.

Institute for Advanced Study. Citizenship unrestricted. Level: postdoctoral. Provides opportunity for advanced study to scholars of unusual ability and achievement. Tenable in Princeton, New Jersey. Fields at School of Mathematics: Pure mathematics. Fields at School of Natural Sciences: Theoretical physics in the fields of particle physics, field theory, plasma physics, astrophysics. Fields at School of Historical Studies: Primarily Greek and Roman archaeology, history and philosophy; art history and the early history of science; Renaissance and Modern European history; scholars in other fields are welcomed. Program in the School of Social Science: Social change. Write to Office of the Director, Institute for Advanced Study, Olden Lane, Princeton, New Jersey 08540.

Institute of International Education.

1. *Programs for United States Citizens.* IIE administers international fellowships in all fields of study at the graduate level, including U.S. Govern-

ment grants under the Fulbright-Hays Act and fellowships offered by foreign governments, universities, and private donors, as well as travel grants to certain countries. Enrolled students should contact their campus Fulbright Program Advisers. Candidates not currently enrolled at a U.S. university should write to Study Abroad Programs, Institute of International Education, 809 United Nations Plaza, New York, New York 10017.

2. *Programs for Foreign Nationals (includes most countries).* IIE develops and administers exchange programs for a number of organizations and corporations, and administers U.S. Government grants under the Fulbright-Hays Act for students under the educational exchange program of the U.S. International Communication Agency. Levels: Primarily graduate, some undergraduate. Candidate should write to the Selection Committee in his/her own country; address may be obtained from the United States Embassy or Consulate. Direct applications to IIE's main office in New York will not be accepted; all applications *must* be made to the appropriate office in the home country of the candidate.

Institute for the Study of World Politics Fellowships. (Formerly The University Consortium for World Order Studies.) Citizenship unrestricted. Level: Awarded to doctoral candidates conducting dissertation research, and to postdoctoral scholars undertaking special research projects. Recipients must, with limited exceptions, be affiliated with U.S. universities during the terms of their fellowships. Fields: Studies that will elucidate current world events and trends, and may identify measures that will help resolve significant international issues; the range of pertinent topics is quite broad, including the following: Limitation of strategic nuclear arms; development of means for the prudent and equitable distribution and management of technology, raw materials, energy, food, and other resources; improvement of levels of health, nutrition, education, economic security, and social welfare in the developing countries; definition and recognition of fundamental human rights and development of more effective international mechanisms and procedures for the protection of such rights. Purpose: The Institute was established to promote scholarly examination of political, economic, and social issues that affect the security, well-being, and dignity of the peoples of the world. The Institute also assists in the identification of candidates for

certain fellowships underwritten by other organizations, as follows: *The Dorothy Danforth Compton Fellowships for Minority-Group Students of International Affairs* support study at the MA and PhD levels by members of disadvantaged American minorities preparing at U.S. universities for careers concerned with international affairs. *The Compton Foundation Population Fellowships* support doctoral and postdoctoral research conducted at U.S. universities by scholars, government officials, or other practitioners (primarily from Third World countries) on political, economic, and social determinants of population growth in developing countries. For information on any of the three programs described above, write to The Institute for the Study of World Politics, 1995 Broadway, New York, New York 10023; specify the name of the program of interest.

International Atomic Energy Agency (IAEA) Fellowships. Citizenship: Open only to foreign nationals from less developed countries. Levels: Graduate and postdoctoral. Fields: All peaceful uses of atomic energy. Fellowships are financed by the General Fund of the International Atomic Energy Agency, by funds received from the United Nations Development Program, and by IAEA Member States who each year make a certain number of fellowships available to IAEA for training of individuals from other countries in the national universities and institutions of the donor country. Write to the office responsible for atomic energy matters in the country of which you are a national.

International Business Machines (IBM) Fellowships. Citizenship: For the Graduate and Postdoctoral Fellowships described below, preference is given to U.S. citizens or permanent residents of the U.S.; Minority Fellowships and Fellowships for Women are open only to U.S. citizens. Fields: Physics, chemistry, electrical engineering, mathematics, computer or information science, mechanical engineering, and materials science. Fellowships are granted to selected universities; applicant should direct all inquiries to the graduate school of the institution he/she is attending, or expects to attend. University officials having questions concerning the administration of the IBM fellowship programs should direct them to Manager, University and Scientific Relations, Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598.

1. *Graduate Fellowships.* Awarded for one academic year, they are intended for students working full time toward the doctoral degree, and include a stipend for the academic year, all tuition and fees, and an unrestricted grant to the university department.

2. *Postdoctoral Fellowships.* Awarded for one calendar year, they are intended for recently graduated PhD's, and consist of an annual stipend only.

3. *Minority Fellowships.* Awarded to entering graduate students only, for a period of two years. Financial arrangements are similar to those for IBM Graduate Fellowships, but include an option for study or IBM employment during the summer.

4. *Fellowships for Women.* Administered under the same guidelines as the IBM Minority Fellowships.

International Road Federation Fellowships. Citizenship: unrestricted. For study in highway and/or traffic engineering and related sciences for graduate engineers. Fellows must return to home country to continue work in their professional fields. Write to national road association in applicant's country, or to International Road Federation, 1023 Washington Building, Washington, D.C. 20005.

International Telephone and Telegraph (ITT) International Fellowships. Established to encourage the exchange of ideas and skills between the United States and foreign countries in the interest of improved understanding and communication; administered by the Institute of International Education. Citizenship: 25 awards to U.S. citizens; 25 awards to foreign students from among the following countries: Argentina, Australia, Austria, Belgium/Luxembourg, Brazil, Chile, Denmark, Egypt, Finland, France, German Federal Republic, Ghana, Greece, Indonesia, Ireland, Israel, Italy, Japan, Kenya, Korea, Mexico, The Netherlands, Nigeria, Norway, Poland, Portugal, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, Venezuela. Fields unrestricted. Level: Candidates must have earned the bachelor's degree or its equivalent prior to the beginning date of the award. Candidates must be citizens of and resident in their home countries at the time of application, and must indicate intent to return to their home countries upon completion of their studies. Proficiency in the language of the country of study is required. U.S. applicants currently enrolled should obtain information from the

Fulbright Program Adviser on their campuses; others should write to Institute of International Education, 809 United Nations Plaza, New York, New York 10017.



Kennedy Scholarships. Citizenship: United Kingdom citizens who are normally resident in the U.K. Available to men and women for graduate study in the United States at Harvard University or the Massachusetts Institute of Technology. Fields generally unrestricted. Scholars are not specifically required to study for a degree in the U.S. and may either have Special Student status or register as a degree candidate. Candidates must have spent at least two of the last four years at a U.K. university or polytechnic, and must have graduated before proceeding to Harvard or M.I.T. Age limit: 25. The Scholarships provide a stipendiary allowance, and meet tuition and health service fees, and transportation to and from the U.S. Applications must be channelled through the authorities of the candidate's university or polytechnic. Applications cannot be considered from persons already in the U.S. Closing date mid-October. Write to Secretary, Kennedy Memorial Trust, Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, England.

Lalor Foundation Research Awards. Citizenship unrestricted. Level: Postdoctoral. Upper age limit is 35 years, with training or experience at least equal to the PhD or MD level. Fields: Fundamental and applied postdoctoral research in female mammalian reproductive physiology bearing on (a) early amniocentesis in fetal development, or alternative approaches to detection and evaluation of dysgenic factors or other disabilities, either congenital or environmentally ascribed, and means toward their disposition; (b) cervical and uterine physiology and phenomena of basic or potential relevancy to pregnancy interruption, particularly for second trimester terminations; (c) biology and comparative physiology of uterine gestation in marsupials as may be interrelated to pregnancy in the primate, including the human female. Appointments to be made only under sponsorship of institution where work would be conducted. For information write to the Director, Lalor Foundation, 4400 Lancaster Pike, Wilmington, Delaware 19805.

Latin American Scholarship Program of American Universities (LASPAU). Participating countries: Argentina, Barbados, Belize, Bolivia, Brazil, Chile,

Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Uruguay, and Venezuela. Purpose: To aid in the preparation of full-time faculty members from Latin American and Caribbean institutions of higher education. Scholarships are awarded for study in the United States at more than 200 participating US colleges and universities, and recipients include those seeking both the master's and PhD degrees. A candidate must: Be nominated by his/ her Latin American or Caribbean university; have completed a university degree; preferably have had some teaching experience; present evidence of financial need; and sign a contract with the nominating institution agreeing to teach at the university upon receipt of the master's degree. Knowledge of English is not a prerequisite for selection as a LASPAU Scholar; for those Scholars not proficient in English, a special program in English language training lasting up to six months is offered prior to the student's enrollment in the US university. Sources of financing for LASPAU Scholarships: (1) The costs of international round-trip transportation, English language training, and family support (for married Scholars) are covered by the sponsoring Latin American or Caribbean university or by a local educational credit agency; (2) The participating US university provides a tuition and fees waiver for the LASPAU Scholar; (3) LASPAU itself provides a monthly maintenance allowance to cover the costs of room, board, books, and personal expenses. Potential candidates desiring further information should contact the LASPAU Coordinator in the Latin American or Caribbean university by which they are employed, or the LASPAU offices at 25 Mt. Auburn Street, Cambridge, Massachusetts 02138.

Marshall Scholarships. Citizenship: Offered by the British Government to United States citizens. Level: Graduate. Tenable at any university in the United Kingdom. Recipients of awards are required to take a degree at their British university. Fields unrestricted. Apply through British Consulates-General in the following regions (scholarships are awarded on a regional basis): 1. North-Eastern: British Consulate General, Suite 4740 Prudential Tower, Prudential Centre, Boston, Massachusetts 02199; 2. Mid-Eastern: 12 South 12th Street, Philadelphia, Pennsylvania 19107; 3. Southern: Suite 912,

225 Peachtree Street, N.E., Atlanta, Georgia 30303; 4. Mid-Western: 33 North Dearborn Street, Chicago, Illinois 60602; 5. Pacific: 120 Montgomery Street, San Francisco, California 94104.

Medical Research Council of Canada Fellowships.

Citizenship: Canadian or landed immigrants to Canada. Purpose: To enable holders of the MD, DDS, DVM, or PhD degree to undertake full-time training in research in the health sciences. Tenable in Canada. Number of awards limited. Write to Director, Awards Programs, Medical Research Council, Ottawa, Canada K1A 0W9.

National Achievement Scholarship Program for Outstanding Negro Students.

Offers grants specified for use in honoring and assisting black high school students who are United States citizens. To participate, students take the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT). About 1,500 eligible Semifinalists are named, and those who become Finalists compete for about 650 college undergraduate scholarships (worth nearly \$2 million) for black students; 325 are one-time National Achievement \$1,000 Scholarships awarded on a regional basis, and 325 are renewable Achievement Scholarships (worth from \$250 to \$1,000 or more for each of the four college years), with criteria set by some 180 sponsors that provide grants. The National Achievement Scholarship Program is a compensatory activity, created in 1964, conducted by the National Merit Scholarship Corporation. Write to National Achievement Scholarship Program for Outstanding Negro Students, One American Plaza, Evanston, Illinois 60201.

National Educational Exchange Program Between the United States and the People's Republic of China.

Citizenship: Applicants must hold U.S. citizenship at the time of application. Administered by the Committee on Scholarly Communication with the People's Republic of China and supported by funds from agencies of the U.S. Government, this program offers support for graduate students and scholars in all fields in the form of grants for research in China and fellowships for advanced language training and coursework at Chinese universities. Advanced training fellowships are awarded as support for a full academic year of study; research grant tenure is variable, dependent on the field of research and level of the researcher.

Application and selection take place in the fall for grant and fellowship tenure beginning the following academic year. Write to Committee on Scholarly Communication with the People's Republic of China (CSCPRC), Educational Exchange Program, National Academy of Sciences, 2101 Constitution Avenue, Washington, D.C. 20418.

National Endowment for the Humanities Fellowships, Stipends, and Seminars. Open to United States citizens and foreign nationals who have lived in the U.S. or its territories for at least three years at the time of application. Purpose: To support individual humanists in their work as scholars, teachers, and interpreters of the humanities. Offers six programs for individual humanists as described below. Applicants must have completed their professional training before applying; active candidates for degrees are not eligible, nor are persons seeking support for work leading toward degrees, although an applicant need not have an advanced degree to qualify. According to the Act which established the Endowment, the humanities include, but are not limited to, the following fields: history, philosophy, languages, literature, linguistics, archaeology, jurisprudence, history and criticism of the arts, ethics, comparative religion, and those aspects of the social sciences employing historical or philosophical approaches. This last category includes cultural anthropology, sociology, political theory, international relations, and other subjects concerned with value and non-quantitative matters. Write to the Division of Fellowships, National Endowment for the Humanities, 806 Fifteenth Street, N.W., Washington, D.C. 20506.

1. *Fellowships: Category A.* Tenure: 6 or 12 months. Applicants should be scholars, teachers, writers, and other interpreters of the humanities who have made, or demonstrated promise of making significant contributions to humanistic knowledge. Purpose: To provide time for uninterrupted study and research.

2. *Fellowships: Category B.* Tenure: 6 or 12 months. Applicants should be primarily engaged in, or intending careers in, undergraduate teaching. Purpose: To provide time for independent study and research which will enhance teaching ability as well as contribute to humanistic thought and knowledge.

3. *Fellowships in Residence for College Teachers.* Tenure: 12 months. Intended for teachers in undergraduate and two-year colleges who wish to improve

their teaching by increasing their knowledge and understanding of the subjects they teach. Fellowships are held in residence at designated universities throughout the country during the academic year. Fellows participate in a seminar directed by a distinguished scholar and undertake personal programs of study and research over and beyond their work for the seminar.

4. *Summer Stipends.* Tenure: 2 months. Open to senior as well as younger humanists. Applicants must be nominated by their institutions and each institution may nominate only three members of its staff. Individuals without academic affiliation may apply directly to the Endowment.

5. *Summer Seminars for College Teachers.* Tenure: 2 months. Open to teachers at undergraduate and two-year colleges. The seminars provide opportunities for work in all disciplines of the humanities with distinguished scholars at institutions broadly distributed throughout the country. Applicants must have been teaching for at least three years at undergraduate or two-year colleges.

6. *Fellowships and Stipends for the Professions.* Open to persons in professions outside teaching and to professional-school teachers. Purpose: To deepen understanding of the humanistic contexts of professional interests and to improve the quality of leadership in the professions. Nine-month fellowships are available for journalists; four- to six-week seminars for law- and medical-school teachers; and four-week seminars for business executives, journalists, labor leaders, lawyers and judges, physicians and other health-care professionals, public administrators, and school administrators.

National Health Service Corps Scholarship Program. Citizenship: United States. A competitive support-for-service program for students of medicine, osteopathy, or dentistry (MD, DO, DDS, or DMD); limited numbers of awards for students in other health-related disciplines may be included as needed each year. For each year of support, recipients are obligated to serve one year in the full-time clinical practice of their profession, employed by the National Health Service Corps, a component of the U.S. Public Health Service. Assignments will be in eligible health manpower shortage areas in the United States serving populations which seriously lack access to quality health care. Write to National Health Service Corps Scholarship Program, Room 5-44, Center Building, 3700 East-West Highway, Hyattsville, Maryland 20782.

The National Institutes of Health (NIH), the Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA), and the Division of Nursing (DN), Health Resources Administration. Offer National Research Service Awards, as listed below, to United States citizens or permanent residents for advanced training in specified areas of biomedical and behavioral research. Recipients of awards must agree to engage in biomedical or behavioral research or teaching after the award for a period equal to the period of support. For NIH, write to Office of Grants Inquiries, Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20205. For ADAMHA, write to Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Rockville, Maryland 20852. For DN, write to Division of Nursing, Federal Center Building #2, 3700 East-West Highway, Hyattsville, Maryland 20782.

1. *Individual Postdoctoral Awards.* Awarded to individuals who have received the doctoral or equivalent degree. Individuals select where they will study at time of application.

2. *Institutional Grants.* Made to domestic non-profit institutions for the support of trainees at the predoctoral or postdoctoral level. Trainees are selected by the institutions.

3. *Individual Predoctoral Awards.* Available through ADAMHA and DN only. Awarded to individuals who have received the baccalaureate degree. ADAMHA trainees must have completed two or more years of graduate work. Individuals must have been formally admitted by the sponsoring institution.

National Institute of Mental Health Fellowships. Citizenship: United States. Awarded to individuals who are committed to research careers relevant to mental health, and who propose to undertake full-time research training. Predoctoral applicants must have completed two or more years of graduate work and a doctoral prospectus. Postdoctoral applicants must have received a PhD, DDS, DO, ScD, or equivalent degree as of the beginning of the proposed fellowship. The research proposal should involve one of the following areas: development of behavior, mental disorders and maladaptive behavior, social issues related to mental health, and mental health services research and evaluation. Among disciplines supported are: anthropology, behavioral genetics, biochemistry, biology, biostatistics, endocrinology, environmental sciences, neuroanat-

omy, physiology, psychology, psychopharmacology, zoology, sociology, and other behavioral sciences. Write to Director, Division of Manpower and Training Programs, National Institute of Mental Health, 5600 Fishers Lane, Rockville, Maryland 20852.

National Medical Fellowships. Citizenship: United States and those who have applied for U.S. citizenship. For support of first and second year medical school study leading to the MD degree. Purpose: to increase the number of physicians from minority groups, currently under-represented in medical professions. Black Americans, American Indians, Mexican Americans, and mainland Puerto Ricans who have been accepted by an American medical school are eligible to apply. Write to National Medical Fellowships, Inc., 250 West 57 Street, New York, New York 10019.

National Merit Scholarship Program. Citizenship: United States. Administered by the National Merit Scholarship Corporation, an independent nonprofit organization founded in 1955 to conduct this annual competition for college undergraduate scholarships. To participate, applicants take the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) in their high schools. Top half of one percent in each state are named Semifinalists and those who become Finalists by meeting requirements compete for a total of 4,300 scholarships worth nearly \$13 million. At least 1,000 are one-time National Merit \$1,000 Scholarships awarded on a state basis and 3,300 are renewable Merit Scholarships (worth between \$1,000 and \$6,000 for the four college years) with criteria specified by some 600 corporations, business organizations, and colleges and universities providing grants for support of Merit Scholarships. For information and a PSAT/NMSQT Student Bulletin describing the competition and scholarships, write National Merit Scholarship Program, One American Plaza, Evanston, Illinois 60201.

National Science Foundation. Citizenship: United States citizens or nationals.

1. *NSF Student-Originated Studies.* Support for projects in which interdisciplinary student teams, composed primarily of upper-division undergraduate students from several science disciplines, conduct student-initiated and student-managed re-

search into relevant social problems associated with the natural or social environment. Proposals are evaluated competitively and grants awarded to four-year colleges and universities which serve as host institutions. Studies are conducted on a full-time basis for ten to twelve weeks at any time when the academic calendar leaves the participants free from conflicting responsibilities. For a list of grantees conducting the projects, write to Student-Oriented Programs, Division of Scientific Personnel Improvement, National Science Foundation, Washington, D.C. 20550.

2. *NSF Undergraduate Research Participation.* Support for projects of research participation and independent study for undergraduates is awarded competitively to degree-granting departments of four-year colleges and universities. Studies may be in any science discipline. Undergraduates of high ability are offered opportunities to participate as junior colleagues in ongoing research, or to investigate problems of mutual interest on a full-time basis for 10 weeks during the summer. For a list of grantees conducting the projects, write to Student-Oriented Programs, Division of Scientific Personnel Improvement, National Science Foundation, Washington, D.C. 20550.

3. *NSF Graduate Fellowships.* Three-year awards limited to individuals who have not completed postbaccalaureate study in excess of 18 quarter hours/ 12 semester hours, or equivalent, in any field of science, engineering, social science, or mathematics. Awarded for study or work leading to master's or doctoral degrees in the mathematical, physical, medical, biological, engineering, and social sciences, and in the history and philosophy of science. Awards are not made in clinical, law, education, or business fields, in history or social work, for work leading to medical, dental, or public health degrees, or for study in joint science-professional degree programs. Write to Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

4. *NSF Minority Graduate Fellowships.* For students who are members of ethnic minority groups which traditionally have been underrepresented in the advanced levels of the Nation's science talent pool, specifically, American Indian, Alaskan Native (Eskimo or Aleut), Black, Mexican American/ Chicano, and Puerto Rican. Three-year awards limited to students who have not completed postbaccalaureate study in excess of 30 semester hours/ 45 quarter hours, or equivalent, in any field of

science, engineering, social science, or mathematics. Awarded for study or work leading to master's or doctoral degrees in the mathematical, physical, medical, biological, engineering, and social sciences, and in the history and philosophy of science. Awards are not made in clinical, law, education, or business fields, in history or social work, for work leading to medical, dental, or public health degrees, or for study in joint science-professional degree programs. Write to Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

5. NSF Postdoctoral Fellowships in Science. Designed to provide postdoctoral research and study opportunities to a broader population of scientists by offering two tenure options: (1) Full-time tenures for those who can arrange to devote all their effort to the conduct of a fellowship program; (2) Part-time tenures for those with family, financial, or such other obligations as may preclude their pursuit of a full-time fellowship program. For those who will have earned by the beginning of their fellowship tenures a doctoral degree in one of the fields of science listed below or have had research training and experience equivalent to that represented by a PhD degree in one of those fields, and who will have held the doctorate for no more than 5 years as of the closing date for applications (November 2, 1979 for the 1980 competition). Women, minority, and physically-handicapped scientists who meet the eligibility criteria are specifically encouraged to apply. Awarded for appropriate research and study in the mathematical, physical, medical, biological, engineering, and social sciences, in the history and philosophy of science, and in interdisciplinary areas. Awards are not made in clinical, education, or business fields, nor in history, social work, or public health. Write to Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

National Wildlife Federation Environmental Conservation Fellowship Program. Applications are accepted from citizens of the United States, Canada, and Mexico who are pursuing degrees in a college or university graduate program or law school. General study areas: Ecosystem analyses and modeling of natural resource management; analyses of major natural resources public policy issues; range management; park administration and management; energy conservation, alternative sources and technologies; economics of natural

resources; wildlife populations, management, and habitat requirements; forestry; marine resources; conservation law; water resources planning and management; environmental education; soil conservation; pollution control and abatement; outdoor recreation; conservation communication and public relations; interface between energy development and natural resource management. Applications must be received by December 31 each year. Write to Executive Vice President, National Wildlife Federation, 1412 Sixteenth Street, N.W., Washington, D.C. 20036.

Natural Sciences and Engineering Research Council Canada-Visiting Fellowships in Canadian Government Laboratories. Citizenship: Unrestricted; however, successful candidates who are not Canadian citizens or Landed Immigrants residing in Canada must satisfy all the Canadian Immigration requirements before commencing tenure of the fellowship. Level: An applicant should hold a doctoral degree from a recognized university or a master's degree plus experience in conducting successful independent research, and must not have reached his/her 36th birthday at the time of application. The Government of Canada offers fellowships on behalf of the following Canadian Government Departments and Agencies: Agriculture Canada; Department of Communications — Communications Research Centre; Energy, Mines and Resources Canada; Fisheries and Environment Canada — Atmospheric Environment Service, Canadian Forestry Service, Inland Waters Directorate, Lands Directorate, Environmental Protection Service — Air Pollution Control Directorate, Fisheries and Marine Service — Fisheries Management, Ocean and Aquatic Sciences; Health and Welfare Canada — Health Protection Branch; National Defense; National Museums Canada — Museum of Natural Sciences; National Research Council Canada; Atomic Energy of Canada Limited. Write to the Scholarships Officer, Natural Sciences and Engineering Research Council Canada, Montreal Road, Ottawa, Ontario K1A 0R6, Canada.

The State of New York. Citizenship: For programs 1 and 2 below, an eligible applicant must have been a legal resident of New York State for at least 1 year prior to September 1 of the scholarship year. (Legal resident: A citizen of the United States, or a holder of a US permanent immigration visa, or a US refugee visa. Persons who hold student or diplomatic

visas are not considered permanent residents.) For program 3 below, an eligible applicant must have been a legal resident of the United States for at least 1 year prior to September 1 of the scholarship year; residence in New York State is not required. For information on programs below, write to the New York State Education Department, Bureau of Higher and Professional Education, Cultural Education Center, Albany, New York 12230.

1. *New York State Regents Scholarships for Professional Education in Medicine, Dentistry, and Optometry.* Fifty awards offered annually for the study of medicine, including osteopathy, and twenty awards annually for the study of dentistry; in each category, awards are divided equally among candidates residing in New York City and candidates residing elsewhere in the State. Five awards offered annually for the study of optometry are distributed on the basis of a state-wide competition. All awards are for professional education in an approved school in New York State. Applications must generally be filed by November 1 of the final year of preprofessional training.

2. *New York State Regents Special Medical Scholarships for Areas of Physician Shortage.* Thirty awards annually for professional study of medicine in an approved medical school in New York State. Candidates must agree to practice medicine, for a period of at least nine months for each annual grant received, in an area in New York State designated as having a shortage of physicians. Tenure of awards is four years. Priority in awards is given to candidates with relatively low family income who currently reside in areas having a shortage of physicians. Applications must generally be filed by May 1 prior to the beginning of the first academic year for which the grant will be effective.

3. *New York State Herbert H. Lehman Graduate Fellowships in Social Sciences, Public Affairs, or International Affairs.* Thirty awards annually provide for study in a college, public or private, in New York State in an approved program leading to a master's or doctoral degree in the social sciences, public affairs, or international affairs. Among the criteria to be considered is the relevance of the student's research and/or professional interest in areas of public policy, urban administration, and public administration. Awards are not made for study in law, social work, psychology, education, or theology. Candidate must have received the baccalaureate degree not later than September of the fellowship year; must not have entered upon any

graduate work prior to July of the fellowship year. Tenure of awards is a maximum of 4 years. Applications must generally be filed by January 31 of final undergraduate year of study.

North Atlantic Treaty Organization (NATO) Postdoctoral Fellowships. Citizenship: United States. Fields: Mathematical, physical, medical, biological, engineering, and social sciences, and the history and philosophy of science. Fellowships are not awarded for support of work leading to medical, dental, or law degrees, nor for support of residency training or other clinical work, or for work in education or business fields, or in social work, diplomacy, history, law or public health. One year's support is awarded to young scientists holding the PhD no more than 5 years for study abroad, primarily in countries of the NATO alliance, or in countries cooperating with NATO. Write in the fall to NATO Postdoctoral Fellowship Program, Division of Scientific Personnel Improvement, National Science Foundation, Washington, D.C. 20550.

For information on *NATO Advanced Research Fellowships* relating to projects of a historical, political, economic or social nature of direct interest to the Atlantic Community, American scholars should write to Council for International Exchange of Scholars, 11 Dupont Circle, Washington, D.C. 20036.

North Atlantic Treaty Organization (NATO) Science Fellowships. Open to nationals of all NATO member countries for studies outside their home country. Fellows are selected by national committees; levels and fields vary with awarding country. Fellowships are rarely awarded to applicants who have been residents of a foreign country for an extended period. Write to appropriate agency in candidate's own country, or to NATO, Scientific Affairs Division, 1110 Brussels, Belgium, which will supply address of the national administrator of the programme.

NRC Research Associateships and Resident Research Associateships (Postdoctoral and Senior Postdoctoral). Offered in basic and applied physical, biological, and medical sciences, and in some aspects of engineering sciences, and economics. Regular associateships are available at the immediate postdoctoral level at all of the U.S. Government laboratories and research centers listed below. Except where it is noted in the laboratory's pro-

gram description, appointments are available at the senior postdoctoral level to individuals at least five years beyond the doctorate whose research experience has resulted in publication and recognition as established contributors in their fields. All programs have a January 15 deadline for receipt of applications; the NASA program has additional deadlines during the year. *Please state laboratory (or laboratories) of interest* when requesting information. Write to Associateship Office, JH 606-D2, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

Air Force Systems Command. Citizenship unrestricted. At nine laboratories. Fields: Aeronomy, aerospace medicine, aerospace physiology, air breathing propulsion, air crew life support equipment, avionics, biodynamics, epidemiology, lasers, man-machine interface, materials science, metabolism, meteorology, neurology, neurophysiology, nuclear effects research, physical anthropology, physical sciences, physics (ionospheric, optical, solar, space), power technology, radiobiology, rocket research, stress physiology, terrestrial sciences, and toxicology.

Ames Research Center, Moffett Field, California (NASA). Citizenship unrestricted. Fields: Advanced life support systems research, aeronautics and flight systems research, biomedical research, biosystems, chemical research, computer sciences, extraterrestrial research, space project technology development, space sciences, thermo- and gas-dynamics.

Armed Forces Radiobiology Research Institute, Bethesda, Maryland. Citizenship unrestricted. Fields: Behavioral sciences, biochemistry, experimental hematology, neurobiology.

Dryden Flight Research Center, Edwards, California (NASA). Citizenship unrestricted. Fields: Aircraft aerodynamics, aircraft propulsion dynamics and control, flight dynamics and control, structures and dynamics.

Environmental Protection Agency, Environmental Research Laboratories, Athens, Georgia and Corvallis, Oregon. Citizenship unrestricted. Fields: Analytical chemistry, ecological modeling, environmental processes, environmental systems, marine ecology, plant physiology, soil-litter decomposition, terrestrial microcosms.

Goddard Institute for Space Studies, New York City (NASA). Citizenship unrestricted. Fields: Astrophysics, climate, earth observations, planetary atmospheres, stratospheric physics and chemistry.

Goddard Space Flight Center, Greenbelt, Maryland (NASA). Citizenship unrestricted. Fields: Advanced data systems, astronomy, atmospheric sciences, earth resources-applications and sensing, engineering, extraterrestrial physics, flight mechanics, geodynamics-geophysics, high energy astrophysics, solar physics, theoretical studies.

Jet Propulsion Laboratory, Pasadena, California (NASA). Citizenship unrestricted. Fields: Biomedical research, earth observations, energy and environment research, infrared and microwave remote sensing, physics and astronomy, planetology and lunar science, satellite oceanography, solar energy utilization through bioconversion, spacecraft propulsion, terrestrial and planetary atmospheres.

Johnson Space Center, Houston, Texas (NASA). Citizenship unrestricted. Fields: Data systems and analysis, earth observations, engineering and development, space and life sciences, space environment, planetary and earth sciences.

Langley Research Center, Hampton, Virginia (NASA). Citizenship unrestricted. Fields: Acoustics and noise reduction, atmospheric environmental sciences, flight dynamics and control, flight electronics, high-speed aerodynamics, instrument research, marine applications and technology, materials structures and dynamics.

Lewis Research Center, Cleveland, Ohio (NASA). Citizenship unrestricted. Fields: Aircraft propulsion; bearings, sealing, rotor dynamics, and transmissions; communications; computational fluid mechanics; computer sciences; earth resources; electric propulsion; electrochemical engineering; engine structures; fundamental studies in tribology; lubrication of concentrated contact mechanisms; materials science; photovoltaics; unsteady flow in turbomachinery.

Marshall Space Flight Center, Huntsville, Alabama (NASA). Citizenship unrestricted. Fields: Data systems, electronics and control, materials and processes, space sciences, structures and propulsion, systems analysis and integration, and systems dynamics.

National Bureau of Standards, Washington, D.C. area and Boulder, Colorado. Citizenship: United States. Fields: Applied mathematics; atomic, molecular, solid state sciences; building and fire research; chemistry (analytical, inorganic, organic, physical); computer science and technology; engineering (electrical, mechanical, process); metallurgy; physics

(plasma, quantum, radiation, thermal). Regular appointments only.

National Oceanic and Atmospheric Administration. At thirteen locations. Citizenship unrestricted. Fields: Aeronomy, atmospheric sciences, climatology, geodesy, geomagnetism, hydrology, marine and space sciences, oceanography, plasma and radio physics, physiology and behavior of marine organisms.

Naval Medical Research and Development Command. At five locations. Citizenship unrestricted. Fields: Aerospace medicine, behavioral sciences, biochemistry, biomechanics, biophysics, experimental dentistry, experimental medicine, human engineering, immunology, metabolism, microbiology, parasitology, physiology, radiation biology, vision. Regular appointments only.

Naval Postgraduate School, Monterey, California. Citizenship unrestricted. Fields: Aeronautical and electrical engineering, meteorology.

Naval Research Laboratory at Washington, D.C. Citizenship: United States. Fields: Acoustics; atmospheric sciences; chemistry; communications; electronics and EW; energy conversion; environmental effects; marine biology and biochemistry; materials; oceanography; optics; physics (plasma and high energy, computational); radar; radiation technology; radiobiology; space science and systems; structure of matter. Regular appointments only.

Naval Weapons Center, China Lake, California. Citizenship: United States. Fields: Acoustics, chemistry (electro-, inorganic, organic, physical), optics, polymer science, surface physics. Regular appointments only.

U.S. Army Atmospheric Sciences Laboratory, White Sands Missile Range, New Mexico. Citizenship: United States. Fields: Aeronomy, atmospheric sciences, meteorology, meteorological techniques and equipment.

U.S. Army Ballistic Research Laboratory at Aberdeen Proving Ground, Maryland. Citizenship: United States. Fields: Applied computer sciences, applied mathematics, combustion research, fluid mechanics, materials sciences, nuclear and radiation physics, physical chemistry.

U.S. Army Medical Bioengineering Research and Development Laboratory, Ft. Detrick, Maryland. Citizenship unrestricted. Fields: Environmental chemistry and environmental microbiology.

U.S. Army Natick Research and Development Command at Natick, Massachusetts. Citizenship unrestricted. Fields: Biochemistry, bioengineering, biophysics, food and nutrition, food sciences, microbiology, pollution abatement, psychology.

U.S. Geological Survey. At twelve locations. Citizenship: United States. Fields: Areal and physical geology, biostratigraphy and paleontology, cartography, computer applications, earth sciences applications, earthquake studies, engineering geology, geochemistry, isotope studies, geophysics, hydrology, lunar and planetary geology, marine geology, mineralogy and petrology, mineral and mineral-fuel resources, sedimentology, volcanology. Regular appointments only.

Wallops Flight Center, Wallops Island, Virginia (NASA). Citizenship unrestricted. Fields: Atmospheric optics, earth and ocean physics, laser physics, coastal zone remote sensing application.

Walter Reed Army Institute of Research, Washington, D.C. and Ft. Detrick, Maryland. Citizenship unrestricted. Fields: Biochemistry, communicable diseases-microbiology, endocrine and cellular physiology, immunobiology, immunology, molecular virology, neuropsychiatry, nutritional immunology, toxicology (bacterial), viral immunology.

Organization of American States (OAS). Citizenship: Citizens and permanent residents of OAS member countries. Candidates must be sponsored by an appropriate governmental agency in the home country. Write to Chief, Trainee Selection, Organization of American States, Washington, D.C. 20006.

1. *Fellowships.* Awarded for study or research in a member country other than that of permanent residence of the applicant. Applicant must provide evidence of advanced training. Fields: Preference will be given to those fields indicated by the respective governments; health sciences excluded.

2. *Special Training Program.* Projects for specialized study in fields of interest and importance to the economic and social development programs of member states. OAS pays travel costs; host country pays remaining costs.

Pan American Health Organization (Pan American Sanitary Bureau). Citizenship: Available to nationals of all member countries. Fields: Public health and health care facilities administration and planning; environmental health; nursing; maternal

and child health; epidemiology and disease control; laboratory services; medicine and health sciences; educational technology and administration of all health related fields; and supporting managerial and technical skills. Conditions: Awarded for training or study not normally available in candidate's own country; candidate must agree in writing to return to his/her home country for at least three years' service with the national health administration or related institution designated by it. Application: Candidate must apply through the health department of his/her own country.

P.E.O. International Peace Scholarships. Citizenship restricted to countries other than North America. Established to promote world peace and understanding through scholarship aid to selected women to further their education in North America. Tenable in the United States and Canada. Level: graduate. Candidate must have a bachelor's degree and be accepted by a U.S. or Canadian college or university to work full time in an advanced degree program. Applicants must secure a non-academic sponsor who is a citizen of the U.S. or Canada; promise to return to home country to pursue professional career is required. Write to P.E.O. International Peace Fund, P.E.O. Executive Office, 3700 Grand Avenue, Des Moines, Iowa 50312.

Population Council Bio-Medical Fellowships. Citizenship unrestricted. Level: postdoctoral. To further research and training in the physiology of reproduction. Fields: physiology, biochemistry, endocrinology, immunology, and steroid chemistry. Previous participation in some aspect of medical or biological research in the field of reproductive physiology is generally required; however, work in related areas may be substituted in some cases. Write to Fellowship Secretary, The Population Council, The Rockefeller University, York Avenue and 66th Street, New York, New York 10021.

Postdoctoral Fellowships for Behavioral Scientists. Citizenship unrestricted. Fields: The behavioral and biological sciences, mathematics, and the humanities. The Center for Advanced Study in the Behavioral Sciences provides scholars free time (with financial support at a level appropriate to their academic rank) to devote to their own study and to associate with colleagues in the same or related disciplines. The fellowship year must be spent at the Center. The Center welcomes nominations from

academic officers and leading scholars. Write to Director, Center for Advanced Study in the Behavioral Sciences, 202 Junipero Serra Boulevard, Stanford, California 94305.

Postdoctoral Fellowships for Minorities. Supported by the Ford Foundation and administered by the National Research Council. Applicant must: (1) be a citizen or national of the United States by the application deadline date; (2) be a member of one or more of the following ethnic minority groups: Black American, Mexican American/Chicano, Puerto Rican, or Native American; (3) have completed by the application deadline date the formal requirements for a doctoral degree in one of the eligible fields or have had research training and experience equivalent to that represented by a doctoral degree in one of these fields. Fields: Behavioral and social sciences, humanities, EMP fields (engineering sciences, mathematics, physical sciences), life and medical sciences, and interdisciplinary programs. Awards will not be made in professional fields such as medicine, law, or social work, or in areas such as educational administration, curriculum supervision, or personnel and guidance. Purpose: A faculty development program designed to help members of minority groups (listed above) already engaged in college or university teaching to develop as scholars in their respective fields, and to acquire the professional associations that will make them more effective and productive when they resume academic employment. Fellowship tenure: A maximum of 12 months of tenure which must be held at an appropriate nonprofit U.S. institution, such as a research university, government laboratory, privately-sponsored nonprofit institute or center for advanced study such as the Woodrow Wilson Center for Scholars (Smithsonian Institution, Washington, D.C.), the Institute for Advanced Study (Princeton, New Jersey), the Center for Advanced Study in the Behavioral Sciences (Palo Alto, California), the Newberry Library (Chicago, Illinois), and the Institute for Research on Poverty (University of Wisconsin, Madison, Wisconsin.) Write to Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

Roche Institute of Molecular Biology Postdoctoral Fellowships. Citizenship unrestricted. Level: Awarded to recent recipients of the MD, PhD, or equivalent degree in the biological or biochemical

sciences. Fields: Biochemistry, genetics, virology, neurobiology, pharmacology, and other areas of molecular biology. Offers basic research training opportunities for approximately 70 postdoctoral fellows with a choice of over 30 staff members at the Institute. Write to Roche Institute of Molecular Biology, Nutley, New Jersey 07110.

The Rhodes Scholarships. Tenable at Oxford University. Fields: generally unrestricted. A candidate must: be a citizen of the United States; be unmarried (marriage is permitted after the first year in residence); be between the ages of 18 and 23 inclusive on October 1 of the year of application; have sufficient standing to assure completion of a bachelor's degree before October of the year following application. Selection is made on four criteria: scholarship, character, leadership, and physical vigor. A candidate applies in one of the fifty states: either in the state of his/her residence, or in a state in which he/she has received at least two years of college training. Information is available through the applicant's college or university, or from The Rhodes Scholarship Office, Wesleyan University, Middletown, Connecticut 06457.

Rotary Foundation Educational Awards for International Understanding. Citizenship: Candidate must be sponsored by a Rotary Club in the district of his/her permanent residence or study; there are Rotary Clubs in over 150 countries. Awards made to promote understanding and friendly relations between peoples of different nations through study abroad by outstanding students, technicians, teachers, and journalists; tenable in all countries which have Rotary Clubs. Candidates should have a good working knowledge in the language of the country of study; up to three months of language training may be included in the award, if needed. Application is made through a Rotary Club in a Rotary district where the candidate legally resides, or is working or studying. For further information, write to Rotary Foundation of Rotary International, 1600 Ridge Avenue, Evanston, Illinois 60201.

1. *Undergraduate Scholarships.* Fields unrestricted. Candidate must: be between the ages of 18 and 24 inclusive, as of the application deadline (age limit is waived if the applicant has done military service); have completed two years or more of university-level study prior to the beginning of the scholarship year, but not have received a bachelor's degree or the equivalent; be unmarried.

2. *Graduate Fellowships.* Fields unrestricted. Candidate must: be between the ages of 20 and 28 inclusive, as of the application deadline (age limit is waived if the applicant has done military service); hold a bachelor's degree or equivalent prior to the beginning of the fellowship year. Candidates may be married.

3. *Teachers of the Handicapped Awards.* For study in the field of education for the handicapped. Candidates must: be between the ages of 25 and 50 inclusive, as of the application deadline; be at least a secondary school graduate and have been employed or engaged as full-time teachers of the mentally, physically, or educationally handicapped for at least two years as of the application deadline. Candidates may be married.

4. *Technical Training Award.* For post-secondary study in a wide variety of fields, such as agriculture, automotive technology, beekeeping, design, electronics, police science, etc. The program provides full-time post-secondary school study or part-time study supplemented by on-the-job training. Candidate must: be between the ages of 21 and 35 inclusive, as of the application deadline; be at least a secondary school graduate or equivalent; have been employed in a technical field full-time for at least two years as of the application deadline. Candidates may be married.

5. *Journalism Awards.* Field: Print or broadcast journalism. Candidate must: be between the ages of 21 and 28 inclusive, as of the application deadline (age limit waived if the applicant has done military service); be at least a secondary school graduate or equivalent; have been employed as a professional journalist for at least two years as of the application deadline, or have been a student actively preparing for a career in print or broadcast journalism, and have completed two years of such full-time post-secondary study prior to commencement of award studies. Candidates may be married.

Leo S. Rowe Pan American Fund. Loans available to nationals of Latin American countries who (a) have completed their technical or professional studies and who wish to pursue advanced studies or research in the United States of America; (b) are already studying in colleges or universities in the U.S.A., and who require additional financial assistance; (c) have scholarships or some resources of their own to enable them to study in the U.S.A., and who require additional financial assistance. A candidate is eligible for a loan only if he/she is able to

finish his/her studies within two years. Loans are interest-free and must be repaid within five years after completion of studies. Write to Secretariat of the Leo S. Rowe Pan American Fund, Educational Credit Unit, Organization of American States, Washington, D.C. 20006.

Royal Norwegian Council for Scientific and Industrial Research. For information on programs listed below, write to Royal Norwegian Council for Scientific and Industrial Research, Sognsveien 72, P.O. Box 70, Tasen, Oslo 8, Norway.

1. *Postdoctorate Fellowships.* Citizenship unrestricted. Fields: Engineering and applied sciences (medicine and agriculture excluded). Candidates should not be more than 35 years of age. Research work/studies can be carried out at the Universities of Oslo and Bergen, The Technical University of Norway at Trondheim, and at different institutes for applied research in Oslo, Bergen, and Trondheim. English may be used at all institutes, German and French at some institutes.

2. *Fellowships.* Citizenship: Norwegian. Level: Postgraduate. Fields: Science and engineering. Candidate should not be more than 35 years of age. Studies can be carried out in a country chosen by the candidate.

3. *Fellowships for Senior Scientists.* Citizenship: Norwegian. Level: Postgraduate. Fields: Science and engineering. Candidate must have had at least five years of experience in research work after having fulfilled the university degree. Studies can be carried out in a country chosen by the candidate. Duration of studies: One to six months.

Scientific Exchanges with the USSR and Eastern Europe. Citizenship: United States.* Provide opportunities for study and research by American scientists in the USSR and Eastern Europe in the natural, mathematical, non-patient-oriented medical, and precise social and behavioral sciences. Lecture and survey visits of one month as well as research visits of three to twelve months are possible at institutes of the academies of sciences of the USSR, Bulgaria, Czechoslovakia, the German

* Scientists from the USSR, Bulgaria, Czechoslovakia, the German Democratic Republic, Hungary, Poland, Romania, and Yugoslavia who are interested in visiting the United States under the interacademy exchange programs should address inquiries to the appropriate section of the academy of sciences in their respective countries.

Democratic Republic, Hungary, Poland, Romania, and Yugoslavia under terms of exchange agreements between the National Academy of Sciences of the USA and the respective academies. The program is open to US citizens who possess the PhD or equivalent by the time of the proposed visit. Applications are available each fall from the Section on USSR and Eastern Europe, Commission on International Relations, National Academy of Sciences, 2101 Constitution Avenue, Washington, D.C. 20418. Deadline for requesting applications is mid-October of each year.

Smithsonian Institution. Citizenship unrestricted. Fields: history of art; the biological sciences, including paleobiology; American history and material culture; the history of science and technology; the earth sciences; anthropology. A working knowledge of English is required. Write to Office of Fellowships and Grants, Room 3300 L'Enfant Plaza, Smithsonian Institution, Washington, D.C. 20560.

1. *Smithsonian Institution Predoctoral Fellowship Program.* Assists graduate students who wish to conduct research, the satisfactory completion of which is expected to result in the award of the PhD or its equivalent. Applicants must be recommended by universities where they have substantially completed formal course requirements for that degree; project must receive approval from Smithsonian staff members who will supervise research.

2. *Smithsonian Institution Fellowship Program.* Provides opportunity for scholars and scientists, who have earned the PhD or its equivalent within five years of the date of application for appointment, and who wish to pursue research assignments in collaboration with a member of the professional research staff.

Social Science Research Council. Citizenship requirements vary with the program. For information on programs listed below, write to Social Science Research Council, Fellowships and Grants, 605 Third Avenue, New York, New York 10016.

1. *International Doctoral Fellowships.* Sponsored by the American Council of Learned Societies and the Social Science Research Council. Fellowships are for doctoral dissertation research to be carried out in Africa, Asia, Latin America and the Caribbean, the Near and Middle East, or Western Europe. Applicants must be graduate students in the social sciences or the humanities who will have completed all requirements for the PhD degree

except for the dissertation at the time the fellowship is to begin.

2. *Postdoctoral Grants for Research on Foreign Areas.* Sponsored by the American Council of Learned Societies and the Social Science Research Council. Grants are offered for research on or in Africa, China, Japan, Korea, Latin America and the Caribbean, the Near and Middle East, South Asia, and Southeast Asia. In addition, there are special programs for research on the economy of China, and for collaborative research on Korea and Latin America. The grants may support research in one country, comparative research between countries in an area, or comparative research between areas. Applicants must have earned the PhD degree in one of the social sciences or humanities or have the equivalent in research experience.

3. *Postdoctoral Research Training Fellowships.* Provide training beyond that required for the PhD degree, usually in a discipline different from that in which the degree was earned. Purpose: To improve the quality of research in the candidate's own discipline.

Society of Exploration Geophysicists (SEG) Foundation. Citizenship unrestricted. Administers programs of scholarships and grants-in-aid. Applicant must intend to pursue a college course directed toward a career in geophysics; must have an interest in and aptitude for physics, mathematics, and geology; must be a high school student with above average grades planning to enter college the next fall term, or an undergraduate college student whose grades are above average, or a graduate student whose studies are directed toward a career in exploration geophysics in operations, teaching, or research. Write to SEG Foundation, P.O. Box 3098, Tulsa, Oklahoma 74101.

Hattie M. Strong Foundation. Student loan fund. Students must be within two years of their final degree from college or graduate school; must be American or naturalized students. Fields unrestricted. Books open each year from January 1 to March 31 for applications covering the scholastic year beginning the following September. Write to Hattie M. Strong Foundation, 409 Cafritz Building, 1625 Eye Street, N.W., Washington, D.C. 20006.

State of Texas-Good Neighbor Scholarships. Citizenship: nations of the American continents. Levels: undergraduate and graduate. State tuition exemp-

tion only. Fields unrestricted. Tenable at state supported institutions in Texas. Write to the Texas institution chosen for study, or to Consulate Office in applicant's own country.

Harry S. Truman Scholarship Foundation. Citizenship: United States citizens and nationals. Established by Congress as the official Federal memorial to former President Truman. Purpose: to develop increased opportunities for young Americans to prepare for and pursue careers in public service. Provides undergraduate scholarships and up to two years of graduate study to outstanding young men and women who have demonstrated a serious intent to pursue a career in the public service. One Truman Scholar will be selected each year from each state, the District of Columbia, Puerto Rico, and, considered as a single entity, Guam, The Virgin Islands, American Samoa, and the Trust Territory of the Pacific Islands. Write to Truman Scholarship Foundation, 712 Jackson Place, N.W., Washington, D.C. 20006.

United Nations Educational, Scientific, and Cultural Organization (UNESCO). Citizenship: nationals of Member States and Associate Members of UNESCO. Fields: education, science and technology, social sciences, culture (i.e. cultural studies, museums, preservation of cultural heritage, education through art, etc.), communication (i.e. mass media, libraries, statistics, etc.). Type: individual fellowships; group training fellowships; fellowships donated by Member States and sponsored by UNESCO; program of aid to refugees through national liberation movements recognized by OUA, UNWRA, or the League of Arab States; individual or group training fellowships; study grants (up to three months) to enable persons well established in their careers to gain international experience. Duration: 1 to 9 or 12 months (sometimes renewable). Candidates must have a level of knowledge and previous experience appropriate for the proposed study, a thorough knowledge of the language of the country of study, and a satisfactory state of health. Applications must be submitted to UNESCO through the national authorities specially designated by the Member State (usually National Commissions for UNESCO) or the appropriate ministry (usually Ministry of Education). Direct applications cannot be considered by UNESCO.

U.S. Office of Education

1. *Modern Foreign Language and Area Study Programs.* General inquiries about the three programs listed below may be addressed to Division of International Education, U.S. Office of Education, 400 Maryland Avenue, S.W., Washington, D.C. 20202.

a. *Graduate Fellowship Program — NDEA Title VI.* Citizenship: United States citizens and permanent resident aliens. Level: Graduate. Fields: Languages and related area studies of Asia, Europe, Near and Middle East, Africa, and Latin America. Requests for application materials for these academic year awards should be made through a participating graduate school.

b. *Graduate Fellowship Program — Fulbright-Hays, Section 102 (b) (6).* Citizenship: United States citizens and permanent resident aliens. Level: Advanced graduate. Provides grants for doctoral dissertation research overseas in foreign languages and/or area studies. Awards are not available for research projects focusing primarily on Western Europe or for research in countries where the United States has no diplomatic relations. Application is made through the institution in which the student is enrolled.

c. *Faculty Research/Study Program — Fulbright-Hays, Section 102 (b) (6).* Citizenship: United States citizens and nationals. Provides grants for research and study overseas to college and university teachers, predoctoral and postdoctoral. Awards are not available for research projects focusing primarily on Western Europe or for research in countries where the United States has no diplomatic relations. Application is made through the employing institution.

2. *Grants.* Citizenship: United States citizens or nationals; permanent residents of American Samoa and the Trust Territories of the Pacific Islands; students who are in the US for other than a temporary purpose and who intend to become permanent residents. Level: Undergraduate. Grants of up to \$1,500 are available to students with exceptional financial need to enable them to attend college. Information may be obtained from the institution you plan to attend.

3. *Student Loans, Guaranteed Loans, and College Work-Study Program.* Citizenship: United States citizens or nationals; permanent residents of American Samoa and the Trust Territories of the Pacific Islands; students who are in the US for other

than a temporary purpose and who intend to become permanent residents. Levels: Undergraduate, graduate, and professional students. Fields unrestricted.

a. *Student Loans.* Application blanks and information can be obtained from the college or university you plan to attend.

b. *Guaranteed Loans.* Further information is available from colleges and universities, banks and credit institutions.

c. *College Work-Study Program.* Provides part-time work for students. Inquire at your college or university.

U.S. Department of Energy (DOE) Special University-Laboratory Cooperation. Citizenship: United States. Designed to increase the interactions and the flow of information between universities and DOE laboratories, to familiarize engineers and scientists with energy sciences and techniques, and to stimulate transfer of knowledge from DOE laboratories to the academic community for incorporation into their education and training curricula. Graduate and undergraduate students as well as faculty members are assigned to DOE laboratories to receive instruction and research experience in advanced science and technology, using unique equipment and instrumentation unavailable on their campuses. Appointments in DOE laboratories are available to college and university faculty members for periods ranging from one month to several months. DOE laboratory training opportunities are available to graduate and undergraduate students, usually during the summer months; special honors programs enable selected science students to spend an academic semester at a DOE laboratory. Opportunities are provided to qualified graduate students who have completed their graduate course work for an advanced degree to complete their dissertation or thesis research. All research participants must engage in laboratory-approved projects only. Fields: Physical, life, engineering, and social sciences, as well as special disciplines of interest to DOE. Inquiries may be addressed to the director of one or more of the following organizations: Ames Laboratory, Ames, Iowa 50010; Argonne National Laboratory, Argonne, Illinois 60440; Associated Western Universities, 136 East South Temple (Suite 1005), Salt Lake City, Utah 84111; Brookhaven National Laboratory, Upton, Long Island, New York 11973; Oak Ridge National Laboratory, Oak Ridge, Tennessee 37830; Solar

Energy Research Institute, 1536 Cole Boulevard, Golden, Colorado 80401; Northwest College and University Association for Science, 100 Sprout Road, Richland, Washington 99352; Oak Ridge Associated Universities, Oak Ridge, Tennessee 37830; Savannah River Ecology Laboratory, Aiken, South Carolina 29801; Savannah River Laboratory, Aiken, South Carolina 29801.

U.S. International Communication Agency (USICA). Under the Mutual Educational and Cultural Exchange Act of 1961 (Fulbright-Hays Act), the Board of Foreign Scholarships and the International Communication Agency award grants to

U.S. citizens (not permanent residents) and citizens of other countries for graduate study, teaching at the elementary and secondary school levels, lecturing in a university, or conducting postdoctoral research. For foreign applicants, a working knowledge of English is required; American participants must have language ability at the level necessary to conduct their work. Fields of study and lecturing are generally unrestricted, although preferred fields are announced each year by the agencies which conduct the competition for USICA (Office of Education, Institute of International Education, Council for International Exchange of Scholars).

Grants are for one year, but they may be extended under certain conditions. Foreign citizens should inquire at the binational educational commission or foundation in the capital city of the applicant's home country. There are foundations/commissions in: Afghanistan, Argentina, Australia, Austria, Belgium and Luxembourg, Brazil, Chile, Colombia, Cyprus, Denmark, Ecuador, Egypt, Finland, France, Germany, Greece, Iceland, India, Ireland, Israel, Italy, Japan, Korea, Liberia, Malaysia, Nepal, The Netherlands, New Zealand, Norway, Pakistan, Peru, The Philippines, Portugal, Spain, Sri Lanka, Sweden, Taiwan, Thailand, Turkey, United Kingdom, Uruguay, and Yugoslavia. In countries where there is not such an organization, foreign citizens may inquire at the U.S. Embassy or Consulate. Americans interested in graduate study should apply to the Fulbright Program Adviser on campus (if enrolled), or to the Institute of International Education, 809 United Nations Plaza, New York, New York 10017. For university lecturing/advanced research, applications should be made to the Council for International Exchange of Scholars, 11 Dupont Circle, N.W., Washington, D.C. 20036. Applications for exchange teaching and

summer seminars for teachers at the elementary and secondary school levels should be made to the Teacher Exchange Section, Division of International Education, Office of Education, Washington, D.C. 20202.

U.S. Department of Justice, Law Enforcement Assistance Administration, Graduate Research Fellowship Program. Citizenship unrestricted, although research must be germane to the American criminal justice system. Established for doctoral candidates in crime-related fields of study who have finished their course work and require support while they are writing their dissertations. Proposals that contribute to improved research and evaluation methodologies for innovative criminal justice programs, and the improvement of criminal justice services or manpower planning and development are particularly encouraged. Provides a maximum \$10,000 award to a Fellow for one year; includes stipend for Fellow, allowance for dependents, major project costs and some university fees. Annual awards contingent upon Congressional appropriation and authorization for the program. Write to Graduate Research Fellowship Program, Law Enforcement Assistance Administration, 633 Indiana Avenue, N.W., Washington, D.C. 20531.

U.S. Nuclear Regulatory Commission, Advisory Committee on Reactor Safeguards Science and Engineering Fellowships. Citizenship: United States. Fields: Nuclear science and engineering. Applications are accepted from persons with the following educational backgrounds: a) A doctorate in a scientific or engineering field with up to 5 years' postdoctoral experience; b) Students in science or engineering who are in the final stages of their PhD work; c) Engineers or scientists with experience in the nuclear field, who are at a stage in their careers where they can undertake a one-to-two year fellowship program on a full-time basis. Applications from all persons, especially from minorities and women, are encouraged. Purpose: To assist the Committee in carrying out its functions in the nuclear power safety field, and to provide an opportunity for young engineers and scientists to develop an understanding of nuclear power production and to develop expertise in the nuclear reactor safety area. Write to Fellowship Program, ACRS/NRC, Washington, D.C. 20555.

U.S. Department of State, Agency for International Development (AID), Office of International Training. Citizenship: nationals of participating countries. Preparation for pre-determined roles in their countries' development program, training for high level professional and technical occupations in both private and public areas including those in agriculture, industry, population, transportation, labor, housing, education, community development, business administration, public administration, and health. Candidate must require training not available in own country, be nominated by own government, agree to specified employment after return. Fellowships, scholarships, or grants not a part of country development program not provided. Write appropriate government department in applicant's own country.

U.S. Department of Transportation (DOT) Faculty Fellow Program. Designed to enable faculty members from accredited U.S. colleges and universities to gain insights into the problems and operations of DOT, increase their contacts with transportation personnel, and extend the scope of their experience in transportation research. Under the program, the Fellow's work will be done at a specified DOT facility; the Fellow will normally be detailed from his/her university to the Federal government at a rate of pay comparable with his/her present earnings as a faculty member. The program is intended as an opportunity for leading academicians in transportation to pursue advanced and innovative research in transportation as well as benefit the DOT in its mission; Fellows are selected after a careful review of each applicant's qualifications and research interests and the relevance of these to the specific needs of DOT. Major research areas include: transportation policy, regulation, economic considerations, planning models and techniques, systems analysis, technical aspects, and safety aspects. A description of each research area and a booklet detailing the Faculty Fellow Program are available by writing to Office of University Research, DPB-50, U.S. Department of Transportation, 400 Seventh Street, S.W., Washington, D.C. 20590.

Alexander von Humboldt Foundation Fellowships. Citizenship unrestricted (exception: German citizens excluded). Offer opportunity to pursue specific research projects at universities or research institutes in the Federal Republic of Germany and in West Berlin. Awarded for periods of six to twelve

months with extension up to 24 months possible. Fields unrestricted (exception: Fine Arts excluded). Candidate must: present evidence of academic qualification equivalent to the German doctorate (PhD); have sufficient knowledge of German (German language stipends available); be not older than 40 years of age; present evidence of employment in teaching or independent research work at the university level; and have scientific publications to his/her credit. Research Fellowships range between 1,900 and 2,600 DM monthly net according to qualification.

Special Program: Senior U.S. Scientist Awards are granted to outstanding U.S. scientists in recognition of past accomplishments in research and teaching, thereby promoting scientific cooperation between institutions in the Federal Republic of Germany and in the United States of America. The Award consists of a cash amount ranging from 25,000 to 72,000 DM and the right to stay for an extended period at research institutes in the Federal Republic of Germany. Nominations only by German scientists. For information on the programs described above, write to Alexander von Humboldt Foundation, Jean-Paul Strasse 12, D-5300 Bonn 2, Federal Republic of Germany.

Westinghouse Science Talent Search. In order to apply, students must be in the last year of secondary school, within the United States and Puerto Rico; students do not have to be U.S. citizens. Fields: Science, engineering, or mathematics. High school teachers or administrators should apply for entry forms by October 1. Deadline: December 15. Send for information from Science Service, 1719 N Street, N.W., Washington, D.C. 20036.

White House Fellowship Program. Provides United States citizens, early in their careers, with the opportunity for direct participation in the work of the Federal Government. Fellows are drawn from all sectors of life (Federal employees are not eligible with the exception of career military personnel of the armed services), and will be assigned as assistants to the Vice President, a Cabinet member, or the President's staff. The President's Commission also provides an educational program for the Fellows which parallels and broadens the unique individual experience of working at the highest levels of government. Primary consideration for selection in this non-partisan program is given to such factors as achievement, intellectual ability, evidence of

leadership, and community involvement. Further information and application materials may be obtained from the President's Commission on White House Fellowships, Washington, D.C. 20415.

Helen Hay Whitney Foundation Postdoctoral Research Fellowships. Citizenship: United States citizenship is not a requirement, but fellowships to non-U.S. citizens living in the U.S. are awarded only for training in this country; applications are not accepted from abroad. Offers three-year fellowships to young men and women under 35 years of age who hold the MD, PhD, or equivalent degree, and are seeking beginning postdoctoral training in basic biomedical research. Applications from established scientists or advanced fellows will not be considered. Write to the Helen Hay Whitney Foundation, 1230 York Avenue, New York, New York 10021.

Woodrow Wilson International Center for Scholars. Created by the U.S. Congress as the nation's official living memorial to its twenty-eighth president, the Center seeks to commemorate both the scholarly depth and the public concerns of Woodrow Wilson through its program of advanced research and the communication it fosters between the worlds of ideas and of affairs. The Center accommodates up to forty Fellows. Men and women of intellectual distinction from the U.S. and from other countries are selected from diverse disciplines and backgrounds to work on major projects at the Center for uninterrupted periods ranging from four months to one year. Fellows have come from academic careers in the social sciences and humanities as well as from careers in law, diplomacy, journalism, business, international organizations, the arts, and others. Academic participants are normally established scholars with doctoral degrees in the U.S. or equivalent achievements in other countries. For non-academic Fellows, postbaccalaureate degrees, academic honors, and a body of writing, artistic or other achievements may be taken into consideration in the selection process. Each Fellow is expected to define and work on a single major scholarly project on a full-time basis in Washington. The Center encourages variety in its subjects and approaches, but seldom considers projects which represent essentially rewriting of doctoral dissertations, editing of papers or documents, preparation of textbooks, composition of memoirs, or writing of miscellaneous articles and reviews. The Center

will not normally favor proposals which represent essentially (a) advocacy in the narrow and purely contemporary sense; or (b) refinement of an existing controversy, methodology, or a private language of interest only to a narrow academic discipline. The fellowship program is organized in terms of five broadly defined academic divisions: Social and Political Studies; Historical and Cultural Studies; Latin American Studies; International Security Studies; and Advanced Russian Studies. The Center has no preferred length of tenure; the total period involved should be long enough to make a significant contribution to a major work, and to justify the substantial costs involved in bringing Fellows and their dependents to Washington. Fellows are selected on the basis of the following criteria: scholarly capabilities, achievements, and promise; importance and originality of the proposed project; likelihood of the research being accomplished; utility of resources available in the Washington area. Write to Woodrow Wilson International Center for Scholars, Smithsonian Institution Building, Washington, D.C. 20560.

Woods Hole Oceanographic Institution. Citizenship unrestricted. Tenable at the Woods Hole Oceanographic Institution only. Write to Dean for Graduate Studies, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543.

1. *Marine Policy and Ocean Management Postdoctoral Fellowships.* Applicants must have completed a doctoral-level degree or possess equivalent professional qualifications through career experience; intended for both recent doctorate recipients and experienced professionals. Fields: Social sciences, law, or the natural sciences related to marine policy and ocean management; studies in the past have included ocean waste disposal, management programs for fishery, deep sea mining, energy siting in the coastal zone, and various topics related to the law of the sea. Fellowships granted for one year, but may be renewed for a second year. Purpose: To provide for an interdisciplinary attack on problems involving science, technology, social science, and policy questions as they relate to marine policy and ocean management. Applications are received in February and fellowships are announced in March.

2. *Postdoctoral Scholar Awards in Ocean Science and Engineering.* Applicants must have recently received a doctoral degree. Fields: All areas of

science and engineering related to the oceanographic sciences (biological, chemical, geological, physical), and oceanographic engineering. Recipients are selected on a competitive basis, with primary emphasis placed on the research promise of the applicant. Awards are made for a one-year period, primarily to further the education and training in oceanography of the recipient. Applications are received in January and awards are announced in early February.

World Health Organization. Citizenship: Available to nationals of all member countries. Fields: Public health and health care facilities administration and planning; environmental health; nursing; maternal and child health; epidemiology and disease control; laboratory services; medicine and health sciences; educational technology and administration of all health-related fields; and supporting managerial and technical skills. Conditions: Awarded for training or study not normally available in the candidate's own country; candidate must agree in writing to return to his/her home country for at least three years of service with the national health administration or related institution designated by it. Application: Candidate must apply through the health department of his/her own country.

Fundação Cuidar o Futuro






SOME PUBLICATIONS LISTING FELLOWSHIPS, SCHOLARSHIPS, AND STUDENT LOANS

Many of the publications listed below are probably available at public, school, or college and university libraries.

1. *Annual Register of Grant Support*, Marquis Who's Who, Inc., 200 East Ohio Street, Chicago, Illinois 60611.
2. *Awards for Commonwealth Universities Staff and Scholarships Guide for Commonwealth Postgraduate Students*, The Association of Commonwealth Universities, 36 Gordon Square, London, W.C. 1H OPS, England.
3. *Awards for Graduate Study and Research*, Statistics Canada, Main Building, Tunneys Pasture, Ottawa, Canada K1A 0T6.
4. *Barron's Educational Series*, by Brownstein, Weiner, and Kaplan, Great Neck, New York, as follows: *You Can Win a Scholarship*, *College Entrance Examinations*, *College Board*.
5. *Catalog of Federal Domestic Assistance*, compiled and edited by the U.S. Office of Management and Budget. Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
6. *Catalog of Federal Education Assistance Programs*, U.S. Department of Education. Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
7. *Directory of Financial Aid in Higher Education-Africa*, available from the African Studies Association, 218 Shiffman Center, Brandeis University, Waltham, Massachusetts 02154.
8. *Don't Miss Out — The Ambitious Student's Guide to Scholarships and Loans*. Octameron Associates, P.O. Box 3437, Alexandria, Virginia 22302.
9. *Fellowships Offered by Foreign Governments, Universities, and Private Donors*, Information Services Division, Institute of International Education, 809 United Nations Plaza, New York, New York 10017.

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August 7, 1981

H.E. Maria de Lourdes Pintasilgo
Presidencia da Republica
Palacio de Belen
Lisbon 1300
Portugal

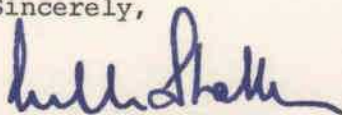
Dear Ms. Pintasilgo:

Thank you for your letter of July 7, 1981. It was good to hear from you and I apologize for the delay in replying to you. I am sorry to learn that you have had to drop the project to be at the Center for International Affairs for a year. This did not surprise me as I doubted whether you would want to be away from Lisbon for such a long time.

I have read your research proposal with interest and I have discussed it with my colleagues at the Fund. I regret very much to have to tell you that the Fund will not be able to provide support for it. We are changing our focus away from single country projects to projects which are broader and more economic in nature. I am sure the project will be an interesting one and I am only sorry that I cannot give you a more positive reply.

With every best wishes,

Sincerely,



Wells Stabler



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