SUMMER PROGRAMS IN JAPAN, KOREA AND TAIWAN
For U.S. Graduate Students in Science and Engineering

Summer Institute in Japan

Monbusho Summer Program in Japan

Summer Institute in Korea

Summer Institute in Taiwan

NSF 99-152 (Replaces NSF 96-151)

DIVISION OF INTERNATIONAL PROGRAMS
DIRECTORATE FOR SOCIAL, BEHAVIORAL AND ECONOMIC SCIENCES
NATIONAL SCIENCE FOUNDATION

JOHN E. FOGARTY INTERNATIONAL CENTER
NATIONAL INSTITUTES OF HEALTH

AGRICULTURAL RESEARCH SERVICE
U.S. DEPARTMENT OF AGRICULTURE

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GENERAL INFORMATION

Program Name: Summer Programs in Japan, Korea and Taiwan for U.S. Graduate Students in Science and Engineering

Short Description/Synopsis of Program:

The Summer Programs in Japan, Korea and Taiwan provide U.S. graduate students in science and engineering first-hand experience in Japanese, Korean and Taiwan research environments, an introduction to the science and science policy infrastructure of the respective countries, and language training. The primary goals of the programs are to introduce students to Japanese, Korean and Taiwan science and engineering in the context of a research laboratory and to initiate personal relationships that will better enable them to collaborate with foreign counterparts in the future. The programs will last approximately eight weeks from June/July to August, and are administered in the United States by the National Science Foundation (NSF), the National Institutes of Health (NIH), and the Agricultural Research Service (ARS) of the U.S. Department of Agriculture. Contact the NSF East Asia and Pacific Program or access the NSF Web site (http://www.nsf.gov/sbe/int/) or the NSF Tokyo Office Web site (http://www.twics.com/~nsftokyo/spmenu.html) for current information.

Cognizant Program Officer(s): NSF INT Summer Programs Contact, telephone 703-292-8704, e-mail: inteap@nsf.gov.

Applicable Catalog of Federal Domestic Assistance (CFDA) No.: 47.075 — Social, Behavioral and Economic Sciences

ELIGIBILITY

As of December 1 of the application year, applicants must be:

♦ U.S. citizens or permanent residents;

♦ Enrolled at a U.S. institution in a science or engineering Ph.D. program, enrolled in a M.D. program and have an interest in biomedical research, or enrolled in a master’s degree program in science or engineering with at least one full academic year of study (two semesters or three quarters) to be completed at the close of the calendar year of program application; and

♦ Pursuing studies in fields of science or engineering which are supported by the National Science Foundation, the National Institutes of Health, or the Agricultural Research Service, and also which are represented among the potential host institutions (see Appendices I-V).

AWARD INFORMATION

♦ Type of award anticipated: Stipend of $2,500 plus travel expenses

♦ Number of participants anticipated: Up to 140 graduate student participants

♦ Amount of funds available: Approximately $500,000 annually

♦ Anticipated date of award: May, annually
APPLICATION PREPARATION & SUBMISSION INSTRUCTIONS

♦ Requirements for Complete Application
• Summer Programs application form
• List of potential host institutions
• Statement of purpose
• Description of current research
• Biographical sketch
• Undergraduate and graduate academic transcripts
• Ten (10) copies required
• NSF Form 1225 (Information About Principal Investigators/Project Directors)
• Two (2) completed recommendation forms

♦ FastLane Requirements
• FastLane proposal preparation requirements: FastLane cannot be used for submission of applications to the Summer Programs in Japan, Korea and Taiwan.

♦ Deadline/Target Dates
• Full Application Deadline: December 1 (postmark), annually

APPLICATION EVALUATION INFORMATION

Applications for the Summer Programs in Japan, Korea and Taiwan will be evaluated by a panel of experts for scientific promise and the potential for contribution to future international collaborative activities. The evaluation criteria include:

♦ Competence in science or engineering and potential for continued professional growth as a research scientist or engineer, as illustrated by research or other professional achievements, educational background, and letters of recommendation.

♦ Relevance of professional interests to research done in Japan, Korea or Taiwan, the current stature of Japanese, Korean or Taiwan research within the field, and the probable effect of participation on an applicant's career. Preference will be given to those who have not previously participated in a Japan, Korea or Taiwan science exchange program.

♦ Willingness and preparation to live in and adapt to foreign cultures and the ability to form good working relations with foreign researchers. Relevant factors include language aptitude or achievement, previous study abroad, membership in intercultural organizations, and research collaboration with foreign scientists.

AWARD ADMINISTRATION INFORMATION

♦ Successful applicants will be notified by March of their nomination, and by May of their formal placement at a foreign host institute.

♦ Participants should confirm that they will have adequate time before departure for Japan, Korea or Taiwan to apply for and receive a U.S. passport. Permanent U.S. residents should verify their ability to travel without difficulty outside of the United States and to Japan, Korea or Taiwan. Holders of valid U.S. passports do not require a visa for stays in Japan of less than 90 days. Participants in the Summer Institutes in Korea and Taiwan will be required to obtain the appropriate visas.
Participants will be requested to provide information about their experience prior to departure from Japan, Korea or Taiwan and to complete an NSF Final Report (NSF FL-239) upon their return to the United States.

INTRODUCTION

This program announcement describes four summer programs that provide U.S. graduate students in science and engineering first-hand experience in Japanese, Korean and Taiwan research environments, an introduction to the science and science policy infrastructure of the respective countries, and language training. The primary goals of the programs are to introduce students to Japanese, Korean and Taiwan science and engineering in the context of a research laboratory and to initiate personal relationships that will better enable them to collaborate with foreign counterparts in the future. The programs will last approximately eight weeks from June/July to August, and are administered in the United States by the National Science Foundation (NSF), the National Institutes of Health (NIH), and the Agricultural Research Service (ARS) of the U.S. Department of Agriculture. Contact the NSF East Asia and Pacific Program or access the NSF Web site (http://www.nsf.gov/sbe/int/) or the NSF Tokyo Office Web site (http://www.twics.com/~nsftokyo/spmenu.html) for current information.

PROGRAM DESCRIPTION

The Summer Institute in Japan

Background

Established in 1990, the Summer Institute is sponsored in Japan by concerned government agencies and organizations and implemented by the Science and Technology Agency of Japan (STA) and the Japan Science and Technology Corporation (JST). The Summer Institute supports up to sixty students each year. Host institutions for the program include government, university, and corporate laboratories in Tokyo and Tsukuba Science City (located approximately 60 km northeast of Tokyo); host laboratories in other areas may be considered on a case-by-case basis.

Key Elements

- Program dates: late June to late August (As a result of the complex institutional arrangements required in Japan for the Summer Institute, the program must be attended in its entirety.)
- Intensive language training and practice with Japanese instructors
- Lectures and discussions on Japanese society and culture
- An internship at a Japanese government, corporate, or university laboratory in Tokyo or Tsukuba (see Appendices I and II; other laboratories, exclusive of universities, will be considered on a case-by-case basis). Note that participants placed on an individual basis outside of Tokyo and Tsukuba may not be able to participate in some of the group lectures, cultural activities and optional language instruction.
- Participants are encouraged to make their own arrangements to visit laboratories outside of their host institute in Tsukuba, Tokyo, or elsewhere in Japan. Such visits should be scheduled in consultation with your host scientist, or be planned to occur following the Summer Institute program.

Support

NSF will provide airline tickets to and from Japan and an allowance of $2,500 to each participant. This allowance is meant to compensate in part for loss of summer employment. The Japanese government will provide accommodations as well as allowances for food and professional travel within Japan. In Japan, the Japan International Science and Technology Exchange Center (JISTEC) will provide logistical support for the Summer Institute. Participants are responsible for providing their own insurance and for any additional expenditures. Due to the intensive nature of the program, dependents are not permitted to accompany participants during the eight-week program.
The Monbusho Summer Program in Japan

Background

Established in 1995 by the Japanese Ministry of Education, Science, Sports, and Culture (Monbusho) as the “Research Experience Fellowships for Young Foreign Researchers,” the Monbusho Summer Program accepts up to 50 American graduate students plus participants from France, Germany and the United Kingdom. The Monbusho Summer Program shares the same primary objectives as the Summer Institute, but does not offer language training except during the first week of orientation. The Monbusho Program also places participants in different research settings. Under the Monbusho Summer Program, participants can work in national universities or inter-university research institutes throughout Japan, whereas in the Summer Institute participants are placed primarily in government or corporate laboratories in the Tokyo and Tsukuba areas.

Key Elements

- Program dates: Late June to late August (As a result of the complex institutional arrangements required in Japan for the Monbusho Summer Program, the program must be attended in its entirety.)

- An introduction to the Japanese language and lectures and discussions on Japanese culture and research policy (one week duration upon arrival in Japan)

- An internship or cooperative research activities at a national university or inter-university research institute (see Appendix III)

- Participants are encouraged to make their own arrangements to visit other research laboratories throughout Japan. Such visits should be scheduled in consultation with the host scientists, or be planned to occur following the conclusion of the Monbusho program.

Support

NSF will provide an allowance of $2,500 to each participant. This allowance is meant to compensate in part for loss of summer employment. The Japanese government will provide airline tickets and allowances for accommodations, food and professional travel within Japan. In Japan, the Graduate University of Advanced Studies (Soken-dai) will provide logistical support for the Monbusho Summer Program. Participants are responsible for providing their own insurance and for any additional expenditures. Due to the intensive nature of the program, dependents are not permitted to accompany participants during the eight-week program.

The Summer Institute in Korea

Background

Started in 1995, the Summer Institute in Korea is sponsored in Korea by the Korea Science and Engineering Foundation (KOSEF). Support for up to 20 U.S. graduate students is provided. KOSEF has identified more than 50 potential host institutions, including KOSEF-supported Science Research Centers and Engineering Research Centers, government research institutes, private research institutes, and other institutions whose scientists and engineers are eligible to participate in cooperative activities supported by KOSEF. Participants in the Summer Institute will be assigned to host laboratories mainly in Seoul, Daeduk Science Town (a suburb of Taejon), or Pohang; host laboratories in other areas may be considered on a case-by-case basis.

Key Elements

- Program dates: mid-June to early August (As a result of the complex institutional arrangements required in Korea for the Summer Institute, the program must be attended in its entirety.)

- An introduction to the Korean language and lectures and discussions on Korean culture and research policy (one week duration upon arrival in Korea)

- One week of visits to Korean centers of scientific and cultural interest

- An internship at a participating Korean research laboratory (see Appendix IV)
• Participants are encouraged to make their own arrangements to visit other research laboratories throughout Korea. Such visits should be scheduled in consultation with the host scientists, or be planned to occur following the conclusion of the Summer Institute program.

Support

NSF will provide airline tickets to and from Korea and an allowance of $2,500 for each participant. This allowance is meant to compensate in part for loss of summer employment. KOSEF will provide allowances for accommodations, food and professional travel within Korea. In Korea, KOSEF also will provide logistical support. Participants are responsible for providing their own insurance and for covering any additional costs. Due to the intensive nature of the program, dependents are not permitted to accompany participants during the eight-week program.

The Summer Institute in Taiwan

Background

Beginning in 2000, the Summer Institute in Taiwan operates in line with the U.S.-Taiwan Relation Act (PL 96-8) and through cooperation between NSF and the Taiwan National Science Council, which provides logistical support in Taiwan. The Summer Institute in Taiwan shares the same primary objectives as the other Summer Programs components, namely an introduction to Taiwan science and engineering in the context of a research laboratory and the initiation of personal relationships which will lead to future collaborations. The program will support up to 10 U.S. graduate students. Host institutions include a selection of national laboratories, central S&T units and research institutes, universities and private sector research centers in Taipei and Hsinchu Science-Based Industrial Park (approximately 100 km south of Taipei); host laboratories in other areas may be considered on a case-by-case basis.

Key Elements

• Program dates: late June to late August (As a result of the complex institutional arrangements required in Taiwan for the Summer Institute, the program must be attended in its entirety.)

• An introduction to the Chinese language and lectures and discussions on Chinese culture and research policy (one week duration upon arrival in Taiwan)

• An internship or cooperative research activities at a national laboratory, central S & T unit, university, research institute or private sector research center (see Appendix V)

• Participants are encouraged to make their own arrangements to visit other research laboratories throughout Taiwan. Such visits should be scheduled in consultation with the host scientists, or be planned to occur following the conclusion of the Summer Institute program.

Support

NSF will provide airline tickets to and from Taiwan and an allowance of $2,500 for each participant. This allowance is meant to compensate in part for loss of summer employment. The Taiwan National Science Council will provide accommodations and allowances for food and professional travel within Taiwan. The Tsing Hua University in Taiwan will provide culture and language orientation during the first week; for the remaining seven weeks, the individual research and other activities of participants will be managed by their respective host institutes. Participants are responsible for providing their own insurance and for any additional expenditures. Due to the intensive nature of the program, dependents are not permitted to accompany participants during the eight-week program.

ELIGIBILITY

To be eligible for these programs, as of December 1 of the application year, applicants must be:

♦ U.S. citizens or permanent residents;

♦ Enrolled at a U.S. institution in a science or engineering Ph.D. program, enrolled in a M.D. program and have an interest in biomedical research, or enrolled in a master’s degree program in science or engineering with at least one full academic year of study (two semesters or three quarters) to be completed at the close of the calendar year of program application; and
Pursuing studies in fields of science or engineering which are supported by the National Science Foundation, the National Institutes of Health, or the Agricultural Research Service, and also which are represented among the potential host institutions (see Appendices I-V).

APPLICATION PREPARATION & SUBMISSION INSTRUCTIONS

Application materials should be submitted directly to the NSF East Asia and Pacific Program by the applicant; endorsement by an institution is not required. Proposals are accepted once a year, beginning in November, and must be postmarked by December 1. Applicants are responsible for verifying with the NSF East Asia and Pacific Program that their application file is complete.

A complete summer program application consists of the following documents, assembled in sequence:

1. Application Form (Part 1, pages 1-3) - The same forms are used for the Summer Institute in Japan, the Monbusho Summer Program, the Summer Institute in Korea, and the Summer Institute in Taiwan. Given that there are three countries involved and the significant differences among the Summer Institutes and the Monbusho Summer Program (the language component in particular), it is extremely important that prospective applicants carefully consider the program to which they apply. Please indicate by a check the appropriate program on page 1 of the application form. Applicants wishing to be considered for more than one program should indicate their preferences numerically on the application form. Program materials will be distributed by regular mail and electronic mail to the addresses you indicate; please enter this information carefully and correctly. Your current home mailing address cannot be your institutional address.

2. List of Potential Host Institutions (Part 2) - Summer Institute in Japan applicants should use Appendices I and II as a guide and should list at least one of the non-university institutions listed in Appendix I. (Other institutions not listed in Appendices I and II, exclusive of universities, may be considered for the Summer Institute in Japan on a case-by-case basis.) Monbusho Summer Program applicants should use Appendix III. (No other institutions can be considered for the Monbusho Summer Program.) Summer Institute in Korea applicants should use Appendix IV. Summer Institute in Taiwan applicants should use Appendix V. (Other institutions may be considered for the Summer Institute in Korea and the Summer Institute in Taiwan on a case-by-case basis).

Applicants should list potential host institutions in priority order and identify the specific research divisions of the programs that are of particular interest. If known, give the names and complete contact information of the researchers that you would like to be considered as your potential host. Indicate whether you have already established contact with each researcher and/or institution, and provide copies of any communication from the scientist offering to host you for the program. Significant updates regarding host contacts should be provided immediately to the NSF East Asia and Pacific Program. Although the information you provide on potential host institutions and researchers will definitely strengthen your application and will assist in matching you with an appropriate host, assignment to a specific laboratory cannot be guaranteed. Matching of all students is done with consideration given to: 1) an individual’s stated preferences regarding host institution; 2) the mix of host laboratories from corporate, government, and university sectors, and; 3) the number of students located in different geographical regions. Formal requests for laboratories to serve as hosts are made through the appropriate ministries and agencies. Requests may be declined for a number of reasons, and when this happens, we seek to arrange placement at a different laboratory. For this reason, you are advised to list at least three potential host institutions. On the other hand, you are cautioned that, should placement occur at any of the institutions you list, you will be expected to accept placement unless there are truly exceptional circumstances.

3. Statement of Purpose (Part 3) - Explain your unique qualifications for participation in the Summer Programs and list the benefits the program will provide to your professional development. May not exceed one page.

4. Description of Current Research (Part 4) - Provide a summary of your current research projects and interests. Please note that this information will be the basis for assignment to an appropriate host laboratory and will be read by potential host scientists in order to determine if there are common research interests. It is important to write the summary for a technical audience and to identify in the process both a general field of study and any specific research interests, especially those relevant to the Japanese, Korean or Taiwan research environment. May not exceed one page.

5. Biographical Sketch - Provide professional and academic essentials, including a list of publications, including those accepted for publication. May not exceed two pages.

6. Undergraduate and Graduate Transcripts - Unofficial copies are acceptable. If enrollment in a master's or Ph.D. program is not explicitly indicated on the latest transcript, attach a signed statement from the registrar's office attesting to current status. Remember that for master's degree students at least one full academic year of study (two semesters or three quarters) must have been completed at the close of the calendar year of program application.
Ten (10) copies of the complete application are required. In addition, the following must also be provided:

1) A single copy of Information About Principal Investigators/Project Directors, NSF Form 1225 (Appendix VI, and on the World Wide Web at: http://www.nsf.gov/cgi-bin/getpub?form1225). The information requested refers only to you, the student applicant.

2) Recommendation Forms (Part 5): One from applicant's research supervisor and one from a faculty member or other individual qualified to comment on the applicant's abilities and potential as a scientific researcher. Make copies of the recommendation form to give to each referee. The research supervisor’s recommendation form should include the initialed endorsement of the applicant's participation in the Summer Programs. The letters must be mailed by the referees directly to the East Asia and Pacific Program at the address below.

All materials must be sent to the East Asia and Pacific Program at the address below and must be postmarked by December 1.

East Asia and Pacific Program, Room 935
Division of International Programs
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230

APPLICATION EVALUATION INFORMATION

Applications for the Summer Programs in Japan, Korea and Taiwan will be evaluated by a panel of experts for scientific promise and the potential for contribution to future international collaborative activities. The evaluation criteria include:

♦ Competence in science or engineering and potential for continued professional growth as a research scientist or engineer, as illustrated by research or other professional achievements, educational background, and letters of recommendation.

♦ Relevance of professional interests to research done in Japan, Korea or Taiwan, the current stature of Japanese, Korean or Taiwan research within the field, and the probable effect of participation on an applicant's career. Preference will be given to those who have not previously participated in a Japan, Korea or Taiwan science exchange program.

♦ Willingness and preparation to live in and adapt to foreign cultures and the ability to form good working relations with foreign researchers. Relevant factors include language aptitude or achievement, previous study abroad, membership in intercultural organizations, and research collaboration with foreign scientists.

ADMINISTRATION INFORMATION

A. Notification of the Award.

Successful applicants will be notified by March of their nomination, and by May of their formal placement at a foreign host institute. Participants should confirm that they will have adequate time before departure for Japan, Korea or Taiwan to apply for and receive a U.S. passport. Permanent U.S. residents should verify their ability to travel without difficulty outside of the United States and to Japan, Korea or Taiwan. Holders of valid U.S. passports do not require a visa for stays in Japan of less than 90 days. Participants in the Summer Institutes in Korea and Taiwan will be required to obtain the appropriate visas.

B. Award Conditions.

An NSF award consists of: (1) the award letter, which includes any special provisions applicable to the grant and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the application referenced in the award letter; (4) the applicable grant conditions, such as Grant General Conditions (NSF GC-1)* or Federal Demonstration Partnership Phase III (FDP) Terms and Conditions* and (5) any NSF brochure, program guide, announcement or other NSF issuance that may be incorporated by reference in the award letter.
C. Reporting Requirements.

Participants will be requested to provide information about their experience prior to departure from Japan, Korea or Taiwan and to complete an NSF Final Report (NSF FL-239) upon their return to the United States.

CONTACTS FOR ADDITIONAL INFORMATION

If after reviewing the information in this publication you have specific questions, please contact NSF's East Asia and Pacific Program staff at the following address:

East Asia and Pacific Program, Room 935
Division of International Programs
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230

Tel: (703) 292-8704
Fax: (703) 292-9175
E-mail: EAPinfo@nsf.gov
URL: http://www.nsf.gov/sbe/int/


OTHER PROGRAMS OF INTEREST

The NSF Guide to Programs is a compilation of funding opportunities for research and education in science, mathematics, and engineering. General descriptions of NSF programs, research areas, and eligibility information for proposal submission are provided in each chapter. Beginning in fiscal year 1999, the NSF Guide to Programs will only be available electronically, at http://www.nsf.gov/cgi-bin/getpub?gp. Many NSF programs offer announcements concerning specific proposal requirements. To obtain additional information about these requirements, contact the appropriate NSF program offices listed the Guide to Programs.


In addition to the Summer Programs, the National Science Foundation provides support for U.S. graduate students in science and engineering to conduct research abroad as part of cooperative research projects directed by senior investigators, or to engage in dissertation research. The latter is specifically designed to support stays abroad for doctoral students to conduct research as part of their dissertation. For more information, please see program announcement NSF 00-138 entitled “International Opportunities for Scientists and Engineers” (http://www.nsf.gov/cgi-bin/getpub?nsf00138) or contact the East Asia and Pacific Program staff at the address and phone number above.

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) funds research and education in most fields of science and engineering. Grantees are wholly responsible for conducting their project activities and preparing the results for publication. Thus, the Foundation does not assume responsibility for such findings or their interpretation.

NSF welcomes proposals from all qualified scientists, engineers and educators. The Foundation strongly encourages women, minorities, and persons with disabilities to compete fully in its programs. In accordance with federal statutes, regulations, and NSF policies, no person on grounds of race, color, age, sex, national origin, or disability shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving financial assistance from NSF (unless otherwise specified in the eligibility requirements for a particular program).

Facilitation Awards for Scientists and Engineers with Disabilities (FASED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF-supported projects. See the program announcement or contact the program coordinator at (703) 292-8704.
The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation regarding NSF programs, employment, or general information. TDD may be accessed at (703) 292-5090 or through FIRS on 1-800-877-8339.

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested may be disclosed to qualified reviewers and staff assistants as part of the review process; to applicant institutions/grantees to provide or obtain data regarding the proposal review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers and educators as necessary to complete assigned work; to other government agencies needing information as part of the review process or in order to coordinate programs; and to another Federal agency, court or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, NSF-50, "Principal Investigator/Proposal File and Associated Records," 63 Federal Register 267 (January 5, 1998), and NSF-51, "Reviewer/Proposal File and Associated Records," 63 Federal Register 268 (January 5, 1998). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding this burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to: Suzanne H. Plimpton, Reports Clearance Officer; Division of Administrative Services; National Science Foundation; 4201 Wilson Boulevard; Arlington, VA 22230.

YEAR 2000 REMINDER

In accordance with Important Notice No. 120 dated June 27, 1997, Subject: Year 2000 Computer Problem, NSF awardees are reminded of their responsibility to take appropriate actions to ensure that the NSF activity being supported is not adversely affected by the Year 2000 problem. Potentially affected items include: computer systems, databases, and equipment. The National Science Foundation should be notified if an awardee concludes that the Year 2000 will have a significant impact on its ability to carry out an NSF funded activity. Information concerning Year 2000 activities can be found on the NSF web site at http://www.nsf.gov/oirm/y2k/start.htm.

PLAIN LANGUAGE

The National Science Foundation is committed to making all of the information we publish easy to understand. If you have a suggestion about how to improve the clarity of this document or other NSF-published materials, please contact us at plainlanguage@nsf.gov.

Catalogue of Federal Domestic Assistance (CFDA) No.: 47.075 – Social, Behavioral and Economic Sciences
OMB No.: 3145-0058
# APPENDIX I

## Government and University Host Institutions for the
### Summer Institute in Japan

(* denotes those laboratories located in Tsukuba)

**NOTE:** Other government institutions can be considered on a case-by-case basis; other universities cannot serve as host institutes for the Summer Institute.

**NOTE:** Homepage addresses (URLs) are given, where available. For further information, see the directory of Japanese national laboratories at: http://stafellow.jst.go.jp/bluebook/host.html. A database of Japanese scientists willing to host American graduate students is available through the NSF Tokyo Office Web site at: http://www.twics.com/~nsftokyo/hosts/datamenu.html; of the researchers in the database, only those at institutions listed in this Appendix I can be hosts for the Summer Institute in Japan.

**NOTE:** To send a facsimile from the U.S. to one of these Japanese institutions, one should dial 011 (International Code) - 81 (Japan's Country Code) - number given below.

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<thead>
<tr>
<th>Institution</th>
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<tr>
<td><strong>ENVIRONMENT AGENCY</strong></td>
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<td>National Institute for Environmental Studies*</td>
<td>(298) 51-2854</td>
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<td><strong>MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES</strong></td>
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<td>Forestry and Forest Products Research Institute*</td>
<td>(298) 74-8507</td>
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<td>(298) 38-6437</td>
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<td>(298) 38-8574</td>
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<td>National Food Research Institute*</td>
<td>(298) 38-8005</td>
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<td>National Institute of Agrobiological Resources*</td>
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<td>National Institute of Agro-Environmental Sciences*</td>
<td>(298) 38-8199</td>
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<td>National Institute of Animal Health*</td>
<td>(298) 38-7907</td>
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<td>(298) 38-8573</td>
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<tr>
<td>National Research Institute of Agricultural Economics</td>
<td>(3) 3940-0232</td>
</tr>
<tr>
<td><a href="http://ss.nriae.affrc.go.jp/indexen.html">http://ss.nriae.affrc.go.jp/indexen.html</a></td>
<td></td>
</tr>
</tbody>
</table>
National Research Institute of Agricultural Engineering*
http://ss.nkk.affrc.go.jp/index-e.htm (298) 38-7609

Japan International Research Center for Agricultural Sciences*
http://ss.jircas.affrc.go.jp/ (298) 38-6337

MINISTRY OF CONSTRUCTION

Building Research Institute*
http://www.kenken.go.jp/ (298) 64-2989

Geographical Survey Institute*
http://www.gsi-mc.go.jp/ (298) 64-8087

Public Works Research Institute*
http://www.gsi-mc.go.jp/ (298) 64-4322

MINISTRY OF EDUCATION, SCIENCE, SPORTS AND CULTURE (Monbusho)

High Energy Accelerator Research Organization (KEK)*
http://www.kek.jp/ (298) 54-3182

University of Tsukuba*
http://www.tsukuba.ac.jp/ (298) 53-6019

University of Tokyo
http://web.yl.is.s.u-tokyo.ac.jp/ut/ut.html (3) 5689-7344

Tokyo Institute of Technology
http://www.titech.ac.jp/ (3) 3729-2082

Tokyo Medical and Dental University
http://www.i-mde.tmd.ac.jp/I-MDE.html (3) 5803-0100

MINISTRY OF HEALTH AND WELFARE

National Institute of Population and Social Security Research
http://www.ipss.go.jp/English/info-e/information-e.html (3) 3591-4816

National Institute of Public Health
http://www.iph.go.jp/indexeg.html (3) 3446-2615

National Cancer Center Research Institute
http://www.ncc.go.jp/index-e.html (3) 3545-3567

National Children's Medical Research Center
(No Web URL available) (3) 3414-3208

National Institute of Infectious Diseases
http://www.nih.go.jp/niid/index-e.html (3) 5285-1239

National Institute of Health and Nutrition
http://www.nih.go.jp:80/eiken/index.html (3) 3202-3278

National Institute of Health Services Management
http://www.nih.go.jp/byoken/index.html (3) 3202-6853

National Institute of Health Sciences
http://www.nihs.go.jp/index.html (3) 3707-6950
National Institute of Neuroscience
http://NCNWEB.NCNP.go.jp/index_e.html (423) 44-6745

National Institute of Mental Health
http://www.ncnp-k.go.jp/ (in Japanese only) (473) 72-1858

MINISTRY OF HOME AFFAIRS

Fire Research Institute
http://www.nihs.go.jp/index.html (in Japanese only) (422) 76-1545

MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY (MITI):
Agency of Industrial Science and Technology (AIST)

Electrotechnical Laboratory*
http://www.aist.go.jp/ETL/ (298) 54-5087

Geological Survey of Japan*
http://www.aist.go.jp/GSJ/ (298) 56-4989

Mechanical Engineering Laboratory*
http://www.aist.go.jp/MEL/enghome.html (298) 58-7033

National Institute for Advanced Interdisciplinary Research*
http://www.aist.go.jp/NAIR/nair_e.html (298) 54-2524

National Institute for Materials and Chemical Research*
http://www.aist.go.jp/NIMC/ (298) 54-4488

National Institute for Resources and Environment*
http://www.aist.go.jp/NIRE/index_e.htm (298) 58-8148

National Institute of Bioscience and Human Technology*
http://www.aist.go.jp/NIBH/index_e.html (298) 54-6005

National Research Laboratory of Metrology*
http://www.aist.go.jp/NRLM/ (298) 54-4202

MINISTRY OF LABOR

National Research Institute of Industrial Safety
http://www.anken.go.jp/ (424) 91-7846

National Institute of Industrial Health
http://www.niih.go.jp/ (44) 865-6116

MINISTRY OF POSTS AND TELECOMMUNICATIONS

Communications Research Laboratory
http://www.crl.go.jp/index.html (423) 27-6659

MINISTRY OF TRANSPORT

Hydrographic Department, Japan Maritime Safety Agency
http://www.jhd.go.jp/jhd-E.html (3) 3541-4397

Institute for Sea Training
http://www.tosho-u.ac.jp/ja/jyousen/kokai.html (in Japanese only) (45) 1-7317
Meteorological Research Institute*
http://www.mri-jma.go.jp/ (298) 53-8545

Electronic Navigation Research Institute
http://www.enri.go.jp/index_e.htm (422) 41-3169

Ship Research Institute
http://www.srimot.go.jp/index1e.html (422) 41-3247

Traffic Safety and Nuisance Research Institute
http://www.bekkoame.or.jp/~tsnri/indexe.htm (422) 41-3233

Port and Harbour Research Institute
http://www.phri.go.jp/ (468) 43-1399

NATIONAL POLICE AGENCY

National Research Institute of Police Science
http://www.nrips.go.jp/ (3) 3221-1245

SCIENCE AND TECHNOLOGY AGENCY

National Institute of Radiological Sciences
http://www.nirs.go.jp/ENG/nirs.htm (43) 256-9616

National Institute for Research in Inorganic Materials*
http://www.nirim.go.jp/ (298) 52-7449

National Institute of Science and Technology Policy
http://www.nistep.go.jp/ (3) 3503-3996

National Research Institute for Earth Science and Disaster Prevention*
http://www.bosai.go.jp/ (298) 51-1622

National Research Institute for Metals*

National Aerospace Laboratory
http://www.nal.go.jp/Welcome-e.html (422) 42-1371

SEMI-GOVERNMENTAL ORGANIZATIONS

Institute of Physical and Chemical Research (RIKEN)
http://www.riken.go.jp/ (484) 62-4717

Tsukuba Life Science Center (RIKEN)*
http://www.riken.go.jp/ (298) 36-2616

National Space Development Agency of Japan*
http://www.nasda.go.jp/index_e.html (3) 5402-6516

NHK (Japan Broadcasting Corporation) Science and Technical Research Laboratories
http://www.nhk-grp.co.jp/nts/index-e.html (3) 5494-2418

Japan Science and Technology Corporation (JST)
http://www.jst.go.jp/EN (48) 226-5630

NON-PROFIT ORGANIZATIONS

Institute of Research and Innovation
http://www.asahi-net.or.jp/~PJ9K-HAS/ (in Japanese only) (3) 5689-6350
International Development Center of Japan
International Superconductivity Technology Center
http://nehan.sendai.kopas.co.jp/ISTEC/index-E.html (3) 3536-5714
Japan Automobile Research Institute
http://www.jari.or.jp/ (298) 56-1124
Japan Foundation for Cancer Research
http://www.jfcr.or.jp/index.html (in Japanese only) (3) 3918-0167
Japan Weather Association
http://www.jwa.go.jp/ (3) 5958-8162
Japan Wildlife Research Center
(No Web URL available) (3) 3813-8898
Railway Technical Research Institute
http://www.rtri.or.jp/ (425) 73-7356
Remote Sensing Technology Center of Japan
http://www.restec.or.jp/restec_e.html (3) 3403-1766
Research Institute of Tuberculosis
http://www.jata.or.jp/EINDEX.HTM (424) 92-4600
Tokyo Metropolitan Institute of Medical Science
http://www.rinshoken.or.jp/index-e.html (3) 3823-2965
Tokyo Metropolitan Institute of Gerontology
http://www.tmig.or.jp/ (3) 3579-4776
Central Research Institute of Electric Power Industry
http://criepi.denken.or.jp/ (3) 3287-2841
APPENDIX II

Japanese Corporate Host Institutions for the Summer Institute in Japan

NOTE: Other corporate institutions can be considered on a case-by-case basis.

NOTE: Homepage addresses (URLs) are given, where available. For further information, see the NSF Tokyo Office listing of homepages for Japanese private companies and organizations at: http://www.twics.com/~nsftokyo/japan.html#PRIVATE.

NOTE: To send a facsimile from the U.S. to one of these listed companies, one should dial 011 (International Code) - 81 (Japan's Country Code) - number given below.

1. Asahi Glass Company, Ltd.: Japan's largest comprehensive glass manufacturer. Soon after the company produced Japan's first domestic sheet glass in 1909, it began moving into related areas such as manufacture of soda ash and the special fire brick required for glass production. Further diversification followed leading the company from glass into construction materials, chemicals, ceramics, and electronics. Focusing on specialty and value-added products in these mainstay fields, the company is expanding into optics, biotechnology, and superconductive electronics, where they now offer a variety of leading-edge materials, components and systems.

Contact Person: Mr. Yasufumi Kanki, Research Information Group, Asahi Glass Company, Ltd. Research Center
Fax Number: (45) 374-8855
URL: http://www.agc.co.jp/english/index.htm

Potential research themes:
1) Chemicals: Fluorine chemistry, polymer chemistry, organic synthesis, inorganic chemicals, membrane technology, biotechnology, material analysis technology
2) Electronics: LCD, optoelectronics
3) Glass, Ceramics: Materials development, analysis and simulation technology

2. ATR Interpreting Telecommunications Research Laboratories (ATR/ITL): One of the four R&D laboratories of the Advanced Telecommunications Research Institute International (ATR-International), an R&D consortium established in 1986 with support from industry, academia and government to be a major center of basic and creative telecommunications R&D. The ATR/ITL perform advanced research for the speech technology industries in Japan, offering opportunities for people skilled in linguistics, phonetics, psychology, signal processing, discourse analysis, and mathematics. The main research areas include speech synthesis, speech recognition, and language translation.

Contact Person: Dr. Nick Campbell, Head, Department II (Synthesis and Prosody Interpretation), ATR/ITL
Fax Number: (774) 95-1308
URL: http://www.itl.atr.co.jp/chatr

3. Daikin Industries Ltd.: A major manufacturer of air conditioners for commercial use. Diversified into hydraulic equipment and fluorine chemicals. Pioneer in fluorine gas and fluoroplastics for semiconductor manufacturers. Fostering cryogenic equipment, CAD/CAM systems, and display units.

Contact Person: Mr. Tetsuo Tajima, Manager, MEC Laboratory
Fax Number: (298) 58-5082
URL: http://www.star-net.or.jp/daikin/index_e.html

Potential research themes:
1) For students majoring in mechanical engineering: research related to cryogenic systems.
2) For students majoring in electronics: research related to superconducting materials.
4. **Eisai Co., Ltd.**: A leading pharmaceutical producer specializing in ethical drugs. Cardiovascular drugs are mainline but the company has advanced into anti-inflammatory analgesics and antibiotics. Key therapeutic areas of the company are disease of immune and metabolic systems, inflammatory, cardiovascular, peripheral and central nervous systems, cancer, etc.

Contact Person: Dr. Yasunori Akita, R&D Personnel Affairs, Tsukuba Research Laboratories  
Fax Number: (298) 47-5690  
URL: http://www.eisai.co.jp/index-e.html

Potential research themes: Pharmaceutical studies, including process chemistry, analysis, pharmacology, metabolism and formulation.

5. **Fujisawa Pharmaceutical Co. Ltd.**: One of the leading pharmaceutical makers with emphasis on antibiotics. Affiliated with the Sanwa Bank group. Leader in "cephalosporin revolution" in antibiotics in Japan; launched first cephalosporin antibiotic in 1971. Currently building up operation setup specializing in pharmaceuticals.

Contact Person: Mr. Yoshinobu Wakabayashi, Chief Manager, Exploratory Research Laboratory  
Fax Number: (298) 47-8610  
URL: http://www.fujisawa.co.jp/

Potential host research groups and research themes:  
1) Synthesis group: natural products chemistry  
2) Bio-science group: pharmacological evaluation  
3) Fermentation group: biological evaluation of fermentation products

6. **Fuji Xerox Co., Ltd.**: Since the establishment in 1962, Fuji Xerox Co., Ltd. has been in the business of leveraging office productivity, not merely producing and selling copiers. In addition to providing customers with the best means to process documents, we offer a full range of services based on the document. The company is promoting innovation in its R&D system and organization, improving management efficiency by shortening lead times, and making vigorous efforts to enhance its digital technologies under its Document Services concept.

Contact Person: Dr. Mutsuo Takenouchi, Manager, Research Planning & Innovation Department  
Fax Number: (465) 81-8969  
URL: http://www.fujixerox.co.jp/indexEn.html

Potential research themes:  
1) Systems, communications, and network technologies  
2) Electronic technologies  
3) Optical device/system technologies  
4) Imaging and processing technologies  
5) Imaging materials technologies  
6) Knowledge management technologies  
7) Analytical technologies

7. **Hamamatsu Photonics K.K.**: A leading R&D and manufacturing company specializing in light-sensitive devices and their applied instruments, ranging from photoelectric tubes and photomultiplier tubes to a wide variety of light sensors, photodiodes, CdS cells, and other semiconductor devices. Now expanding into such new fields as optical information processing in the life sciences.

Contact Person: Mr. Tsuyoshi Hayakawa, Director, Tsukuba Research Laboratory  
Fax Number: (298) 47-5266  
URL: http://www.hamamatsu.com

Potential research groups:  
Molecular Biophysics  
Molecular Biotechnology

Potential research themes:  
1) Photonic applications for genome informatics  
2) Development of time-resolved microscopy for molecular dynamics.
8. **Hitachi Chemical Co., Ltd.**

- Comprehensive processor of synthetic resins, with weight on processing for electrical and electronic equipment. Affiliated with Hitachi, Ltd. Ranks high as producer of molded parts of automobiles and housing equipment. Emphasis on development of new ceramics, including silicon carbide, pharmaceuticals and biochemicals.

  Contact Person: Mr. Kouichi Furukawa, Manager, Administration and Accounting Section, Tsukuba Research Laboratory
  Fax Number: (298) 64-4008
  URL: [http://www.hitachi-chem.co.jp/ENGLISH/index.htm](http://www.hitachi-chem.co.jp/ENGLISH/index.htm)

  Potential research themes:
  1) Electronic Device and Inorganic Materials - Optoelectronic devices, new wiring boards, photo-electric conventional materials, inorganic electronic materials
  2) Organic Materials and Optical Devices - New heat resistant materials, optical recording materials, and electronic materials
  3) Biotechnology - Diagnostic drugs

9. **Hitachi, Ltd.**

- One of the leading high-tech enterprises in the world extending its scope widely from information and communications systems to electron devices, from electrical power and energy machinery to public infrastructure and industrial systems, and even to consumer electronics.

  Contact Person: Ms. Michiko Yamazaki, Planning Office, Central Research Laboratory
  E-mail: myamazak@crl.hitachi.co.jp
  Fax Number: (423) 27-7695
  URL: [http://www.hitachi.co.jp/Rd/index.html](http://www.hitachi.co.jp/Rd/index.html)

  Potential research themes:
  1) Broadband Intelligent Network
  2) Multimedia
  3) Medical and Welfare Systems
  4) Parallel and Distributed Computing
  5) System on Semiconductor

10. **IBM-Japan's Tokyo Research Laboratory**

- The Tokyo Research Laboratory is one of IBM's seven research facilities. Its aims are twofold: to contribute widely to the scientific and technological community through research on information technology, and to become an industrial research institute, promoting fundamental and applied research that will be a core for IBM products and solutions.

  Contact Person: Mr. Takabumi Minamisawa, IBM Tokyo Research Laboratory
  E-mail: minami3@jp.ibm.com
  Fax Number: (462) 73-7428
  URL: [http://www.trl.ibm.co.jp](http://www.trl.ibm.co.jp)

  Potential research themes:
  1) Software technology (Java JIT compiler, Java mobile agent, speech technology)
  2) Systems for the disabled (XML, pervasive software)
  3) System technology (mobile computing, storage, LCD display, security hardware)
  4) Network and solution technology (Data Hiding (TM), text mining, network security, collaboration)
  5) Computer science theory (data mining, optimization)

11. **Ishikawajima-Harima Heavy Industries Co., Ltd.**

- One of comprehensive heavy machinery makers in Japan. The company was founded in 1853, started out in shipbuilding, and its operations have now expanded to building bridges, constructing chemical and power plants, manufacturing aerospace equipment and a broad variety of other fields. The company is also involved in waste treatment and environmental protection facilities.

  Contact Person: Dr. Junichi Sato and/or Ms. Tomoko Shizuka, Administration Department, Technical Development
  Fax Number: (3) 3534-2207
  URL: [http://www.ihi.co.jp/index-e.html](http://www.ihi.co.jp/index-e.html)
Potential research groups:
- Materials Technology
- Fluid Dynamics & Combustion
- Machinery & Structure
- Aero-Engine & Space

Potential research themes:
1) Materials degradation measurement by intragranular distortion analysis in poly-crystalline materials
2) Influence of burnt gas on flame stability in staged combustion


Contact Person: Mr. Shinichiro Mutoh, Associate Manager, Research Planning Department, NTT Science and Core Technology Group
Fax Number: (46) 270-2371
URL: http://info.ntt.co.jp/RD/

Potential research themes:
1) R&D on telecommunication networks
2) next generation switching systems
3) software development
4) interdisciplinary research in the area of communication and network technologies

13. **Sankyo Co., Ltd.**: Second largest pharmaceutical maker in Japan, producing mostly ethical drugs. Also engaged in OTC drugs, agrochemicals, etc. Immunity anticancer agents mainline. Has large-selling drugs including antibiotics and peptic ulcer agents. Stress on overseas expansion, with enhanced measures for in-house R&D capacity paying off.

Contact Person: Dr. Toshiyuki Akiyama, Deputy Director, Research Institute
Fax Number: (3) 5436-8569
URL: http://www.sankyo.co.jp/

Potential research themes:
1) Organic chemistry, medicinal chemistry
2) Pharmacology, pathology, chemotherapy
3) Studies on natural products
4) Biotechnology, medicinal biochemistry
5) Fermentation technology
6) Physiochemical analysis, drug metabolism
7) Toxicology, laboratory animal science
8) Product formulation and analysis
9) Synthetic chemistry
10) Organic and environmental chemistry

14. **Sanyo Electric Co., Ltd.**: Major consumer electronics maker. A particular focus and strength of Sanyo is the development of environment-friendly technologis, such as those for clean-energy generation and rechargeable batteries.

Contact Person: Dr. Yorinobu Yoshisato, Manager, Planning Section, Tsukuba Research Center
Fax Number: (298) 37-2830
URL: http://www.sanyo.co.jp/index_e.html

Potential host research groups and research themes:
1) Bio-systems Research Group: Biological-information processing
2) Eco-systems Research Group: Bio-degradation systems
3) Future Electronics Research Group: New-function hard-material electronics
4) Superconductivity Electronics Research Group: High-temperature superconductivity electronics
15. **Sony Computer Science Laboratory Inc.**: Founded in February 1988 for the sole purpose of conducting research related to computer science. Research currently underway focused on distributed operating systems, computer networks, programming languages, human-computer interaction, artificial intelligence, complex systems and other fundamental aspects of next-generation computers.

   Contact Person: Ms. Yumiko Kitamori, Administrative Manager
   Fax Number: (3) 5448-4273
   URL: http://www.csl.sony.co.jp

   Potential research themes:
   1) Distributed operating systems
   2) Computer networks, programming languages
   3) Human-computer interaction
   4) Artificial intelligence, complex systems
   5) Other fundamental aspects of next-generation computers

16. **Sony Corporation**: A leading consumer electronics maker with audio equipment, TVs and VCRs as mainstays. Multinational company with sales in U.S. surpassing those in Japan. Has production bases worldwide. Developing into telecommunications and information fields.

   Contact Person: Ms. Masuyo Yamaguchi, R&D Human Resources
   E-mail: yama@dpo.crl.sony.co.jp
   URL: http://www.sony.co.jp/

   Potential research themes:
   1) R&D on electronic devices and materials (excluding semiconductors)
   2) digital signal processing
   3) computer and telecommunication systems

17. **Stanley Electric Co., Ltd.**: A leading maker of electrical equipment for automobiles and leads for motorcycle lamps. Strengthening setup to develop electronic-related products, such as LEDs and LCDs. Strengthening U.S. plant (in Ohio).

   Contact Person: Mr. Kenichi Kondo, Chief Engineer, Tsukuba Research Center
   Fax Number: (298) 47-4165
   URL: http://www.stanley.co.jp/index-e.htm

   Potential research themes: R&D on solar cells, organic materials, electronic devices

18. **Sumitomo Chemical Co., Ltd.**: One of Japan's largest comprehensive chemical manufacturers, offering a diverse range of products, including basic chemicals, fine chemicals, agricultural chemicals, pharmaceuticals, electronic materials, composite materials, and aluminum.

   Contact Person: Dr. Yoshihiko Tsuchida, Technical Department, Tsukuba Research Laboratory
   Fax Number: (298) 64-4729
   URL: http://www.sumitomo-chem.co.jp/

   Potential research themes: Current R&D activities are focused on creating new materials, metals, polymers, and electronics related materials.

19. **Tokuyama Corporation**: A major producer of caustic soda and chlorine, Tokuyama also produces cement and such synthetic resins as polypropylene. R&D emphasizes fine chemicals such as polysilicon, resin lenses, dental materials, and new ceramics. Advancing into electronic materials.

   Contact Person: Mr. Shigeki Yuasa, General Manager, Tsukuba Research Laboratories.
   E-mail: trlitoku@po.infosphere.or.jp
   Fax Number: (298) 64-6050
   URL: http://www.tokuyama.co.jp/rd/rd21.htm (in Japanese only)
Potential research themes:
1) Computational chemistry (thermodynamic and stream simulation)
2) Organic synthesis (new synthesis and catalyst)
3) Fine ceramics (new materials and composite structure)
4) Analytical chemistry (organic and ceramic structural analysis)
5) Biochemistry (enzyme, protein, microbial, and gene)

20. Toshiba Corporation: Toshiba has structured its R&D organization around three major tiers. Corporate laboratories at the Research & Development Center carry out basic research with a five-year to 10-year horizon. The Center's activities are coordinated with those of seven Development Laboratories, each of which are attached to an individual business group and work on product-oriented technologies within a three-year to five-year framework. Research at these laboratories leads to new products and models at the divisional engineering departments founds in all Toshiba manufacturing facilities. In addition to the Research & Development Center, one other corporate laboratory, the Manufacturing Engineering Research & Development Center develops manufacturing technologies that are widely used within the company.

Contact Person: Mr. Mitoshi Misaki, group Manager and/or Mr. Ichiro Teraoka, Relations Group, International Division
FAX Number: (3) 5444-9217
URL: http://www.toshiba.co.jp/index.htm

Potential research themes:
1) Material & Devices
2) Communication & Information Systems
3) Mechanical Systems
4) Semiconductor Devices
5) Systems & Software
6) Environmental Engineering

21. ULVAC Japan, Ltd.: A leading manufacturer of vacuum equipment and systems for a wide range of industry-specific applications, including use in the semiconductor and electronics industries, as well as in the production of packaging and storage of numerous foods and medicines.

Contact Person: Dr. Hiroyuki Yamakawa, Director, ISM Tsukuba Laboratories.
Fax Number: (298) 47-5157
URL: http://www.ulvac.co.jp/english/index.html

Potential research themes:
1) Vapor deposition polymerization of organic polymer films and their applications
2) Surface treatment of materials and their applications
3) Thin film processes and their applications
APPENDIX III

Host Institutions
for the
Monbusho Summer Program in Japan
(*denotes institutions constituting schools and departments in the Graduate University for Advanced Studies)

NOTE: Homepage addresses (URLs) are given, where available. For further information, see the NSF Tokyo Office listings of homepages for national inter-university research institutes (http://www.twics.com/~nsftokyo/inter-univ.html) and national universities (http://www.twics.com/~nsftokyo/universities.html#national). A database of Japanese scientists willing to host American graduate students is available through the NSF Tokyo Office Web site at: http://www.twics.com/~nsftokyo/datamenu.html. Of the researchers in the database, only those at the inter-university research institutes and national universities listed in this Appendix III can be hosts for the Monbusho Summer Program.

NATIONAL INTER-UNIVERSITY RESEARCH INSTITUTES:

National Institute of Japanese Literature
http://www.nijl.ac.jp/ (in Japanese only)
Investigation, collection, classification and safekeeping of books and other reference materials on Japanese literature

National Institute of Polar Research (NIPR)*
http://www.nipr.ac.jp/
Comprehensive scientific research of the polar regions and observation activities thereon

Institute of Space and Astronautical Science (ISAS)
http://www.isas.ac.jp/
Research of space science and engineering and their application

National Institute of Genetics*
http://www.nig.ac.jp/
Comprehensive research on genetics

Institute of Statistical Mathematics*
http://www.ism.ac.jp/index-e.html
Research into mathematical principles of statistics and their application

International Research Center for Japanese Studies*
http://www.nichibun.ac.jp/Welcome.html
International and interdisciplinary research into Japanese culture and research cooperation with Japanologists abroad

National Astronomical Observatory*
http://www.nao.ac.jp/
Research of astronomy and its related fields, observation of astronomical phenomenon, compilation of almanacs, "Japanese Standard Time Casting, determination and presentation of the Standard Time, and test of clocks

National Institute for Fusion Science*
http://www.nifs.ac.jp/index.html
Theoretical and applied research on nuclear fusion plasma

Okazaki National Research Institutes*
http://www.orion.ac.jp/index.html

Institute for Molecular Science (IMS)*
http://www.ims.ac.jp/index.html
Research into structures and functions of molecules and theoretical research pertaining thereto

National Institute for Basic Biology (NIBB)*
http://www.nibb.ac.jp/index.html
Comprehensive study on basic biology

National Institute for Physiological Sciences (NIPS)*
http://www.nips.ac.jp/index-eng.html
Comprehensive study on physiology

High Energy Accelerator Research Organization (KEK)*
http://www.kek.jp/
Incorporated management of the two affiliated research institutes, and research of high energy accelerator and related applied science

Institute of Particle and Nuclear Studies: Research into elementary particles and nuclei using high energy particle-accelerators, and related theoretical studies

Institute of Materials Structure Science: Research into materials structure and function using synchrotron light and particle beams produced with high energy particle-accelerators, and related theoretical studies.

National Center for Science Information System (NACSIS)
http://www.nacsis.ac.jp/nacsis.f-index.html
Collection, classification and provision of scientific information, and research and development of scientific information system

National Museum of Ethnology*
http://www.minpaku.ac.jp/eng/index.htm
Collection and safekeeping of materials on various races in the world as well as their exhibition before the public and research of ethnology

National Museum of Japanese History
http://www.rekihaku.ac.jp/ (only in Japanese language)
Collection, safekeeping and public exhibition of Japanese historical, archaeological and folk materials, and research pertaining thereto

NATIONAL UNIVERSITIES AND COLLEGES:

(Subject to availability of host scientist and housing facility; listed from north to south.)

HOKKAIDO AREA:

Hokkaido University
http://www.hokudai.ac.jp/index-e.html

Hokkaido University of Education
http://www.iwa.hokkyodai.ac.jp/

Muroran Institute of Technology
http://www.muroran-it.ac.jp/

Otaru University of Commerce
http://www.otaru-uc.ac.jp/welcome-e.html

Obihiro University of Agriculture and Veterinary Medicine
http://www.obihiro.ac.jp/index_e.html

Asahikawa Medical College
http://www.asahikawa-med.ac.jp/ (in Japanese only)

Kitami Institute of Technology
http://www.kitami-it.ac.jp/

TOHOKU AREA:
Hirosaki University
http://www.hirosaki-u.ac.jp/ (in Japanese only)

Iwate University
http://takuboku.cc.iwate-u.ac.jp/

Tohoku University
http://www.tohoku.ac.jp/

Miyagi University of Education
http://www.miyakyo-u.ac.jp/index-e.html

Akita University
http://quartet.bb.akita-u.ac.jp/index-e.html

Yamagata University
http://www.yamagata-u.ac.jp/

Fukushima University
http://www.fukushima-u.ac.jp/

KANTO-TOKYO AREA:

Ibaraki University
http://www.ibaraki.ac.jp/index-e.shtml

University of Library & Information Sciences
http://www.ulis.ac.jp/

University of Tsukuba
http://www.tsukuba.ac.jp/

Utsunomiya University
http://www.utsunomiya-u.ac.jp/

Gunma University
http://www.gunma-u.ac.jp/index.html

Saitama University
http://www.saitama-u.ac.jp/index-e.html

Chiba University
http://www.hike.te.chiba-u.ac.jp/chiba-u/

The University of Tokyo
http://web.yl.is.s.u-tokyo.ac.jp/ut/ut.html

Tokyo Medical and Dental University
http://www.i-mde.tmd.ac.jp/omdex-E.html

Tokyo University of Foreign Studies
http://www.tufs.ac.jp/

Tokyo Gakugei University
http://www.u-gakugei.ac.jp/eindex.html

Tokyo University of Agriculture and Technology
http://www.tuat.ac.jp/Welcome.english.html
Tokyo National University of Fine Arts and Music  
http://www.geidai.ac.jp/english/index.html

Tokyo Institute of Technology  
http://www.titech.ac.jp/

Tokyo University of Mercantile Marine  
http://www.tosho-u.ac.jp/index.en.html

Tokyo University of Fisheries  
http://www.tokyo-u-fish.ac.jp/official/index-e.html

Ochanomizu University  
http://www.ocha.ac.jp/index-e.html

The University of Electro-Communications  
http://www.uec.ac.jp/index-e.html

Hitotsubashi University  
http://www.hit-u.ac.jp/foreigner/INDEX.HTM

Yokohama National University  
http://www.ynu.ac.jp/ynu/ynu-e.html

The Graduate University for Advanced Studies (GUAS)  
http://www.soken.ac.jp/english/index_e.html

Tsukuba College of Technology (Junior college for youth with visual and hearing disability)  
http://www.tsukuba-tech.ac.jp/collegee.htm

**KOSHINETSU AREA:**

Niigata University  
http://www.cc.niigata-u.ac.jp/index-e.html

Nagaoka University of Technology  
http://www.nagaokaut.ac.jp/index-e.html

Joetsu University of Education  
http://www.juen.ac.jp/ (in Japanese only)

Yamanashi University  
http://www.yamanashi.ac.jp/home_e.html

Yamanashi Medical University  
http://www.yamanashi-med.ac.jp/

Shinshu University  
http://gipwm.shinshu-u.ac.jp/emain.html

**HOKURIKU AREA:**

Toyama University  
http://www.toyama-u.ac.jp/

Toyama Medical and Pharmaceutical University  
http://www.toyama-mpu.ac.jp/

Kanazawa University  
http://kipcwww.ipc.kanazawa-u.ac.jp/Welcome.html
Fukui University
http://www.iepc.fukui-u.ac.jp/

Fukui Medical School
http://www.fukui-med.ac.jp/ (in Japanese only)

Japan Advanced Institute of Science and Technology, Hokuriku
http://www.jaist.ac.jp/

Takaoka National College (a junior college)
http://www.takaoka-nc.ac.jp/index_eng.html

TOKAI AREA:

Gifu University
http://www.gifu-u.ac.jp/index_E.html

Shizuoka University
http://www.shizuoka.ac.jp/index-e.htm

Hamamatsu University School of Medicine
http://www.hama-med.ac.jp/index.html

Nagoya University
http://www.nagoya-u.ac.jp/ENGLISH/index.html

Aichi University of Education
http://www.aichi-edu.ac.jp/ (URL: Only in Japanese language)

Nagoya Institute of Technology
http://www.nitech.ac.jp/engl_inf/index_e.html

Toyohashi University of Technology
http://www.tut.ac.jp/english/index.html

Mie University
http://www2.mie-u.ac.jp/english.html

KANSAI-KINKI AREA:

Shiga University
http://www.shiga-u.ac.jp/e-main.htm

Shiga University of Medical Science
http://www.shiga-med.ac.jp/home.html

Kyoto University
http://www.kyoto-u.ac.jp/index-e.html

Kyoto University of Education
http://www.kyokyo-u.ac.jp/

Kyoto Institute of Technology
http://www.kit.ac.jp/English/Ewelcome.html

Osaka University
http://www.osaka-u.ac.jp/english/index.html

Osaka University of Foreign Studies
Osaka Kyoiku University
http://okumedia.cc.osaka-kyoiku.ac.jp/index_e.html

Hyogo University of Teacher Education
http://www.hyogo-u.ac.jp/index-e.html

Kobe University
http://www.kobe-u.ac.jp/

Kobe University of Mercantile Marine
http://jos2.ti.kshosen.ac.jp/index-e.html

Nara University of Education
http://www.nara-edu.ac.jp/

Nara Women's University

Wakayama University
http://www.wakayama-u.ac.jp/

Nara Institute of Science and Technology
http://www.aist-nara.ac.jp/

**CHUGOKU AREA:**

Tottori University
http://www.tottori-u.ac.jp/tottori_e.html

Shimane University
http://www.shimane-u.ac.jp/index_e.htm

Shimane Medical University
http://www.shimane-med.ac.jp/welcome.html

Okayama University
http://www.okayama-u.ac.jp/index_e.html

Hiroshima University
http://www.hiroshima-u.ac.jp/index.html

Yamaguchi University
http://www.yamaguchi-u.ac.jp/

**SHIKOKU AREA:**

The University of Tokushima

Naruto University of Education
http://www.naruto-u.ac.jp/index-E.html

Kagawa University
http://www.kagawa-u.ac.jp/index-e.html

Kagawa Medical School
http://www.kms.ac.jp/index-e.html
Ehime University
http://www.ehime-u.ac.jp/English/index.html

Kochi University
http://www.kochi-u.ac.jp/EN/

Kochi Medical School
http://www.kochi-ms.ac.jp/

KYUSHU AND OKINAWA AREA:

Fukuoka University of Education
http://www.fukuoka-edu.ac.jp/index-e.html

Kyushu University
http://www.kyushu-u.ac.jp/index-e.html

Kyushu Institute of Design
http://www.kyushu-id.ac.jp/

Kyushu Institute of Technology
http://www.kyutech.ac.jp/

Saga University
http://www.cc.saga-u.ac.jp/

Saga Medical School
http://www.saga-med.ac.jp/index-e.html

Nagasaki University
http://www.cc.nagasaki-u.ac.jp/

Kumamoto University
http://www.eecs.kumamoto-u.ac.jp/

Oita University
http://www.oita-u.ac.jp/

Oita Medical University
http://www.oita-med.ac.jp/indexeng.html

Miyazaki University
http://www.miyazaki-u.ac.jp/index-e.html

Miyazaki Medical College
http://www.miyazaki-med.ac.jp/

Kagoshima University
http://www.kagoshima-u.ac.jp/index-e.html

National Institute of Fitness and Sports in Kanoya
http://www.nifs-k.ac.jp/home.e.html

University of the Ryukyus
http://www.ie.u-ryukyu.ac.jp/
# APPENDIX IV

## Host Institutions for the Summer Institute in Korea

**NOTE:** Other institutions can be considered on a case-by-case basis.

**NOTE:** Homepage addresses (URLs) are given, where available.

**NOTE:** To send a facsimile from the U.S. to one of these Korean institutions, the dialing sequence is 011 (International Code) - 82 (Korea's Country Code) - city code and telephone number as given below.

<table>
<thead>
<tr>
<th>Institution</th>
<th>Address and Phone/FAX Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Seoul Area:</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Center for Theoretical Physics (CTP) Seoul National University | Director: Prof. Hi-Sung Song  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-880-6523, 886-4589  
Fax: 82-884-7167  
E-mail: ctp@ctp.snu.ac.kr  
http://stp.snu.ac.kr |
| Organic Chemistry Research Center (OCRC) Sogang University | Director: Prof. Nung-Min Yoon  
1-1 Sinsu-dong  
Mapo-ku, Seoul 121-742  
Tel: 82-2-705-8233  
Fax: 82-2-701-0967  
http://www.sogang.ac.kr/~ocrc/ |
| Research Center for Molecular Microbiology (RCMM) Seoul National University | Director: Prof. Young-Chil Hah  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-6528  
Fax: 82-2-888-4911  
E-mail: rcmm@cns.snu.ca.kr  
http://rcmm.snu.ac.kr/ |
| Global Analysis Research Center (GARC) Seoul National University | Director: Prof. Sang-Moon Kim  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-6562  
Fax: 82-2-877-8435  
E-mail: garc@math.snu.ac.kr  
http://garc.snu.ac.kr/ |
| Research Center for Cell Differentiation (RCCD) Seoul National University | Director: Prof. Man-Sik Kang  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-6685 / 6  
Fax: 82-2-872-1993  
http://www.snu.ac.kr/engsnu/index.html |
| Cancer Research Center (CRC) Seoul National University | Director: Prof. Jae-Gahb Park  
28 Yongon-dong  
Chongno-ku, Seoul 110-799 |
Center for Mineral Resources Research (CMR)  
Korea University  
Director: Prof. Chil-Sup So  
1, Anam-dong  
Sungbuk-ku, Seoul 136-701  
Tel: 82-2-920-1820, 82-2-927-6181  
Fax: 82-2-927-6180  
http://plaza.snu.ac.kr/~snu/src/  

Research Center for Thin Film Fabrication and Crystal Growing of Advanced Materials (RETCAM)  
Seoul National University  
Director: Prof. Dong-Nyung Lee  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-7446  
Fax: 82-2-886-4156  
http://www.snu.ac.kr/engsnu/index.html  

Atomic-Scale Surface Science Research Center (ASSRC)  
Yonsei University  
Director: Prof. Chung-Nam Hwang  
134 Shinchon-dong  
Seodaemun-ku, Seoul 120-749  
Tel: 82-2-361-2613  
Fax: 82-2-312-7090  
http://www.yonsei.ac.kr/Eng/Admin/1.html#5  

Center for Molecular Catalysis (CMC)  
Seoul National University  
Director: Prof. J. H. Suh  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-6816  
Fax: 82-2-874-3704  
http://www.snu.ac.kr/engsnu/index.html  

Animal Resources Research Center (ARRC)  
Kon-Kuk University  
Director: Prof. Chang-Woo Kim  
93-1 Mojin-dong  
Sungdong-ku, Seoul 133-701  
Tel: 82-2-450-3670 / 3666  
Fax: 82-2-455-5305  
http://www.konkuk.ac.kr/english/ENGLISH/RESEARCH_AUXIL/  

Research Center for New Drug Development (RCNDD)  
Seoul National University  
Director: Prof. Nak-Doo Kim  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-7832  
Fax: 82-2-874-2203  
http://www.snu.ac.kr/engsnu/index.html  

Engineering Research Center for Advanced Control and Instrumentation (ERC-ACI)  
Seoul National University  
Director: Prof. Wook-Hyun Kwon  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-7318  
Fax: 82-2-888-4182  
http://www.snu.ac.kr/engsnu/index.html  

Turbo and Power Machinery Research Center (TPMRC)  
Seoul National University  
Director: Prof. Sung-Tack Ro  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-880-5513  
Fax: 82-2-883-0179  
http://www.snu.ac.kr/engsnu/index.html
Bioproducts Research Center (BRC)  
Yonsei University  
Director: Prof. Yu-Ryang Pyun  
134 Shinchon-dong  
Seodaemun-ku, Seoul 120-749  
Tel: 82-2-361-3591 / 82-2-361-6820  
Fax: 82-2-312-6821  
http://www.yonsei.ac.kr/Eng/Admin/1.html#4

Advanced Structure Research Station (STRESS)  
Hanyang University  
Director: Prof. Li-Hyung Lee  
17, Haengdang-dong  
Sungdong-ku, Seoul 133-791  
Tel: 82-2-290-0541  
Fax: 82-2-281-2557  
E-mail: office@stress.hanyang.ac.kr  
http://www.hanyang.ac.kr/english/teaching/research.html

Ceramic Materials Research Institute (CPRC)  
Hanyang University  
Director: Prof. Keun-Ho Auh  
17 Haengdang-dong,  
Sungdong-ku, Seoul 133-791  
Tel: 82-2-290-0517  
Fax: 82-2-299-2884  
http://www.hanyang.ac.kr/english/teaching/research.html

Center for Information Storage Devices (CISD)  
Yonsei University  
Director: Prof. Young-Pil Park  
134 Shinchon-dong  
Seodaemun-ku, Seoul 120-749  
Tel: 82-2-361-2814  
Fax: 82-2-312-2159  

Korea Earthquake Engineering Research Center (KEERC)  
Seoul National University  
Director: Prof. Sung-Pil Chang  
San 56-1, Shilim-dong  
Kwanak-ku, Seoul 151-742  
Tel: 82-2-887-7346  
Fax: 82-2-887-0349  
http://www.snu.ac.kr/engsnu/index.html

Korea Institute of Science and Technology (KIST)  
Director: Prof. Young-Pil Park  
39-1 Hawall, Gok-dong  
Sungbuk-ku, Seoul  
Tel: 82-2-958-5114  
Fax: 82-2-963-4013  
http://www.kist.re.kr/english/home.html

Science and Technology Policy Institute (STEPI)  
Director: Prof. Sung-Pil Chang  
207-43 Chung, Yangri-dong  
Dongdaemun-ku, Seoul  
Tel: 82-2-250-3114  
Fax: 82-2-964-3741  
http://www.stepi.re.kr/

Korea Ocean Research and Development Institute (KORDI)  
385 Block Sa-dong  
Ansan, Kyeongki-Do  
Tel: 82-345-400-6000  
Fax: 82-345-408-5820  
http://www.kordi.re.kr/

Kyeongki Area:

Research Center for New Bio-Materials in Agriculture (RCNBMA), Seoul National University  
Director: Prof. Kwan-Hwa Park  
103 Seodung-dong
<table>
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<tr>
<th>Research Center</th>
<th>Director</th>
<th>Address</th>
<th>Phone</th>
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<tr>
<td>Safety and Structural Integrity Research Center (SAFE)</td>
<td>Prof. Young-Jin Kim</td>
<td>300 Chanchun-dong</td>
<td>82-331-290-7436</td>
<td>82-331-290-7482</td>
<td><a href="http://www.snu.ac.kr/engsnu/index.html">www.snu.ac.kr/engsnu/index.html</a></td>
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<tr>
<td>Sung Kyon Kwan University</td>
<td></td>
<td>Jangan-ku, Kyungki-Do</td>
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**Taejon Area:**

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<tr>
<td>KAIST</td>
<td></td>
<td>Yusung-ku, Taejon 305-701</td>
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<tr>
<td>Center for Artificial Intelligence Research (CAIR)</td>
<td>Prof. Jung-Wan Cho</td>
<td>373-1 Kusung-dong</td>
<td>82-42-869-8711 / 3</td>
<td>82-42-869-8700</td>
<td><a href="http://www.kaist.ac.kr/">www.kaist.ac.kr</a></td>
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<tr>
<td>Satellite Technology Research Center (SaTReC)</td>
<td>Prof. Dan-Keum Sung</td>
<td>373-1 Kusung-dong</td>
<td>82-42-869-8612</td>
<td>82-42-869-0064</td>
<td><a href="http://www.kaist.ac.kr/">www.kaist.ac.kr</a></td>
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<td>KAIST</td>
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<td>Yusung-ku, Taejon 305-701</td>
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<tr>
<td>BioProcess Engineering Research Center (BPERC)</td>
<td>Prof. Ho-Nam Chang</td>
<td>373-1 Kusung-dong</td>
<td>82-42-869-8811 / 2</td>
<td>82-42-869-8800</td>
<td><a href="http://www.kaist.ac.kr/">www.kaist.ac.kr</a></td>
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<td>Chungnam National University</td>
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<td>Yusung-ku, Taejon 305-764</td>
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<tr>
<td>Center for Interface Science and Engineering of Materials (CISEM), KAIST</td>
<td>Prof. Suk-Joong Kang</td>
<td>373-1 Kusung-dong</td>
<td>82-42-869-8919, 4113</td>
<td>82-42-869-8920</td>
<td><a href="http://www.kaist.ac.kr/">www.kaist.ac.kr</a></td>
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<th>Website</th>
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<tbody>
<tr>
<td>Center for Advanced Reactor Research (CARR)</td>
<td>Prof. Moon-Hyun Chun</td>
<td>373-1 Kusung-dong</td>
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<td><a href="http://www.kaist.ac.kr/">www.kaist.ac.kr</a></td>
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<td><a href="http://www.kaist.ac.kr/">www.kaist.ac.kr</a></td>
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</table>
Opto-Electronics Research Center (OERC)
KAIST
Director: Prof. Young-Se Kwon
373-1 Kusung-dong
Yusung-ku, Taejon, 305-701
Tel: 82-42-869-8559/8551
Fax: 82-42-869-8560
http://www.kaist.ac.kr/

Micro Information and Communication
Remote Object-Oriented Systems (MICROS)
KAIST
Director: Prof. Byong-Whi Lee
373-1 Kusung-dong
Yusung-ku, Taejon 305-701
Tel: 82-42-869-8581 ~ 4
Fax: 82-42-869-8580
E-mail: office@micros.kaist.ac.kr
http://www.kaist.ac.kr/

Center for Advanced Functional Polymers (CAFPoly)
KAIST
Director: Prof. Sung-Chul Kim
373-1 Kusung-dong
Yusung-ku, Taejon 305-701
Tel: 82-42-869-8431 ~ 2
Fax: 82-42-869-8430
http://www.kaist.ac.kr/

System Engineering Research Institute (SERI)
1 Oun-dong
Yunsung-ku, Taejon City
Tel: 82-42-869-1211
Fax: 82-42-861-1999
http://www.seri.re.kr/

Korea Research Institute of Bioscience and Biotechnology
(KRIBB)
1 Oun-dong
P.O. Box 115
Yunsung-ku, Taejon 305-600
Tel: 82-42-860-4114
Fax: 82-42-861-1759
E-mail: admin@kribb.re.kr
http://www.kribb.re.kr/

Korea Atomic Energy Research Institute (KAERI)
150 Dukjin-dong
P.O. Box 105, Yusung-ku, Taejon
Tel: 82-42-820-2170
Fax: 82-42-820-2702
http://www.kaeri.re.kr/index_e.html

Korea Research Institute of Standards and Science (KRISS)
Doryung-dong
Yusung-ku, Taejon
Tel: 82-42-868-5114
Fax: 82-42-861-1494

Electronics and Telecommunications Research Institute
(ETRI)
161 Kajung-dong
Yusung-ku, Taejon 305-350
Tel: 82-42-860-6687
Fax: 82-42-861-5022
http://www.etri.re.kr/

Korea Research Institute of Chemical Technology (KRICT)
100 Chang-dong
Yusung-ku, Taejon
Korea Institute of Geology Mining and Materials (KIGAM) 100 Chang-dong
Yusung-ku, Taejon
Tel: 82-42-868-3720
Fax: 82-42-861-9720
http://

Korea Institute of Energy Research (KIER) 71-2 Chang-dong
Yusung-ku, Taejon
Tel: 82-42-860-3240
Fax: 82-42-860-6224
http://www.kier.re.kr/index2.html

Korea Institute of Machinery and Metals (KIMM) 171 Chang-dong
Yusung-ku, Taejon
Tel: 82-42-868-7720
Fax: 82-42-868-7824
http://www.kimm.re.kr/

Korea Aerospace Research Institute (KARI) 52 Oun-dong
P.O. Box 113
Yusung-ku, Taejon 305-600
Tel: 82-42-860-2610
Fax: 82-42-820-2004
http://www.kari.re.kr/

Korea Ginseng and Tobacco Research Institute (KGTRI) 302 Sinsung-dong
Yousung-ku, Taejon
Tel: 82-42-861-5217
Fax: 82-42-861-1949

Kyongpook Area:

Topology and Geometry Research Center (TGRC) Director: Prof. U-Hang Ki
Kyungpook National University 1370 Sankyuk-dong
Taegu 702-701
Tel: 82-53-950-6831
Fax: 82-53-959-1717
E-mail: uhang@bh.kyungpool.ac.kr
http://www.kyungpool.ac.kr/english/eindex5.html

Center for Biofunctional Molecules (CBM) Director: Prof. Dong-Han Kim
Pohang University of Science and Technology San 31 Hyoja-dong
Nam-ku, Pohang, Kyoungbuk 790-784
Tel: 82-562-279-8131 / 2
Fax: 82-562-279-5877
http://www.postech.ac.kr/e/

Advanced Fluids Engineering Research Center (AFERC) Director: Prof. Chung-Mook Lee
Pohang University of Science and Technology San 31 Hyoja-dong
Nam-ku, Pohang, Kyoungbuk 790-784
Tel: 82-562-279-5904
Fax: 82-562-279-3199
http://www.postech.ac.kr/e/

Sensor Technology Research Center (STRC) Director: Prof. Byung-Ki Sohn
Kyungpook National University 1370 Sankyuk-Dong
Taegu 702-701
Tel: 82-53-950-6825, 952-8743
Fax: 82-53-950-6827
E-mail: bksohn@ee.kyungpook.ac.kr
http://sensor.kyungpook.ac.kr/

Research Center for Catalytic Technology (RCCT)
Pohang University of Science and Technology
Director: Prof. Young-Gul Kim
San 31 Hyoja-dong
Nam-ku, Pohang, Kyungbuk 790-784
Tel: 82-562-279-5800
Fax: 82-562-279-5799
E-mail: ygkim@vision.postech.ac.kr
http://www.postech.ac.kr/e/

Automation Research Center (ARC)
Pohang University of Science and Technology
Director: Prof. Kun-Soo Chang
San 31 Hyoja-dong
Nam-ku, Pohang, Kyungbuk 790-784
Tel: 82-562-279-5958
Fax: 82-562-279-3499
http://www.postech.ac.kr/e/

Center for Advanced Aerospace Materials (CAAM)
Pohang University of Science and Technology
Director: Prof. Nack-Joon Kim
San 31 Hyoja-dong
Nam-ku, Pohang, Kyungbuk 790-784
Tel: 82-562-279-2820 / 2135
Fax: 82-562-279-2399 / 5887
E-mail: caam@vision.postech.ac.kr
http://www.postech.ac.kr/e/

Kyongnam Area:

Plant Molecular Biology and Biotechnology
Research Center (PMBBRC)
Gyeongsang National University
Director: Prof. Moo-Je Cho
900 Kajwa-dong
Chinju 660-701
Tel: 82-591-8751-5957
Fax: 82-591-759-9363
E-mail: mjcho@noogae.gsmu.ac.kr
http://www.gsnu.ac.kr/

Research Center for Ocean Industrial Development (RCOID)
National Fisheries University of Pusan
Director: Prof. Kyu-Dae Cho
599-1 Daeyeon-dong
Nam-ku, Pusan 608-737
Tel: 82-51-6207-6954
Fax: 82-51-627-1096

Engineering Research Center for Net-Shape and Die Manufacturing (NSDM)
Pusan National University
Director: Prof. Jae-Chan Choi
30 Changjeon-dong
Keumjeong-ku, Pusan 609-735
Tel: 82-51-510-1491/2
Fax: 82-51-512-1722
http://alumni.pusan.ac.kr/pnu/english/e-index.htm

Research Center for Dielectric and Advanced Matter Physics (RCDAMP)
Pusan National University
Director: Prof. Min-Su Jang
30 Changjeon-dong
Keumjeong-ku, Pusan 609-735
Tel: 82-51-510-1868/9
Fax: 82-51-515-2390
http://alumni.pusan.ac.kr/pnu/english/e-index.htm

Korea Institute of Machinery and Metals (KIMM)
66 Sangnam-dong
Changwon City  
Tel: 82-551-80-3000  
Fax: 82-551-80-3333  
http://www.kimm.re.kr/

Jeonbuk Area:

Semiconductor Physics Research Center (SPRC)  
Chonbuk National University  
Director: Prof. Hyung-Jae Lee  
Chonju 561-756  
Tel: 822652-270-3607  
Fax: 82-652-270-3585  
E-mail: hsprc@chonbuknms.chonbuk.ac.kr  
http://sprc.chonbuk.ac.kr/

Jeonnam Area:

Hormone Research Center (HRC)  
Chonnam National University  
Director: Prof. Hyuk-Bang Kwon  
Kwangju 500-757  
Tel: 82-62-520-7787  
Fax: 82-62-520-7786  
http://www.chonnam.ac.kr/

Ultra Fast Optical Network (UFON)  
KIST  
Director: Prof. Un-Chul Paek  
572 Sangam-dong  
Kwangsan-ku, Kwangu 506-712  
Tel: 82-62-970-2222  
Fax: 82-62-970-2233  
http://www.kist.re.kr/english/home.html
# APPENDIX V

## Host Institutions for the
### Summer Institute in Taiwan

**NOTE:** Other institutions can be considered on a case-by-case basis.

**NOTE:** Homepage addresses (URLs) are given, where available.

**NOTE:** To send a facsimile from the U.S. to one of these Taiwan institutions, the dialing sequence is 011 (International Code) - 886 (Taiwan's Country Code) - city code and telephone number as given below.

<table>
<thead>
<tr>
<th>Institution</th>
<th>Address and Phone/FAX Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Laboratories</strong></td>
<td></td>
</tr>
<tr>
<td>National Center for High-Performance Computing Research Theme: High Performance Computing and Networking</td>
<td>Kuo-chien Kai, Associate Research Scientist P.O. Box 19-136, 7 R&amp;D Road VI Science-Based Industrial Park, Hsinchu TEL: 886-3-5776085 ext. 202 FAX: 886-3- 5773620 E-mail: <a href="mailto:kckai@nchc.gov.tw">kckai@nchc.gov.tw</a> URL: <a href="http://www.nchc.gov.tw/">http://www.nchc.gov.tw/</a></td>
</tr>
<tr>
<td><strong>Central S&amp;T Units and Research Institute</strong></td>
<td></td>
</tr>
<tr>
<td>Science and Technology Information Center Research Theme: The construction and promotion of English-version databases</td>
<td>Hong-Ming Huang 106, Sec.2, Hoping E. Road, Taipei TEL: 886-2- 27377969 FAX: 886-2- 27377669 E-mail: <a href="mailto:hmhuang@mail.stic.gov.tw">hmhuang@mail.stic.gov.tw</a> URL: <a href="http://www.stic.gov.tw/eng-home.htm">http://www.stic.gov.tw/eng-home.htm</a></td>
</tr>
<tr>
<td>Taiwan Forestry Research Institute Research Theme: Taiwan long-term ecological research</td>
<td>Dr. Hen-Biau King 53, Nan Hai Road, Taipei TEL: 886-2-23817107 ext. 408 FAX: 886-2-23752164 E-mail: <a href="mailto:hbking@serv.tfri.gov.tw">hbking@serv.tfri.gov.tw</a> URL: <a href="http://www.tfri.gov.tw/index-e.html">http://www.tfri.gov.tw/index-e.html</a></td>
</tr>
</tbody>
</table>
## Universities and Research Institutes

| Institute of Molecular Biology | Deputy Director Bon-chu Chung  
Academia Sinica | TEL: 886-2-27899215  
Research Theme: Gene regulation and gene expression | FAX: 886-2-27826085  
E-mail: mbchung@gate.sinica.edu.tw  
URL: http://www.sinica.edu.tw/imb/ |
| Institute of Chemistry | Dr. Lou-sing Kan  
Academia Sinica | TEL: 886-2-27884184  
Research Theme: Enzymes and advanced materials for chemical catalysis: activation of alkanes, carbon monoxide, and carbon dioxide | FAX: 886-2-27831237  
E-mail: lskan@chem.sinica.edu.tw  
URL: http://www.sinica.edu.tw/chem/ |
| Graduate Institute of Communication Engineering | Ms. Wen-ing Chao  
College of Engineering | TEL: 886-2-23683770  
Research Theme: Wireless communications | FAX: 886-2-23683824  
E-mail: comm@cc.ee.ntu.edu.tw  
URL: http://www.ee.ntu.edu.tw/welcome-eng.html |
| Thermal Science and Flow Control Lab | Prof. An-Bang Wang  
Institute of Applied Mechanics | TEL: 886-2-23630979 ext.405  
College of Engineering | FAX: 886-2-23678001  
National Taiwan University | E-mail: abwang@spring.iam.ntu.edu.tw  
URL: http://www.iam.ntu.edu.tw/newver/index-e.htm |
| Optical Sciences Center | Director Guo-chung Chi  
National Central University | TEL: 886-3-4257681  
Theme: Opto-electronic materials and devices | FAX: 886-3-4258816  
E-mail: gcchi@halley.phy.ncu.edu.tw  
URL: http://www.phy.ncu.edu.tw/ |
| Department of Chemical Engineering | Dr. Sinn-wen Chen  
National Tsing-Hua University | TEL: 886-3-5721734  
Research Theme: Chemical engineering, materials science, biological engineering | FAX: 886-3-5715408  
E-mail: swchen@che.nthu.edu.tw  
URL: http://www.che.nthu.edu.tw/english/ |
| Department of Industrial Engineering and Management | Chairman Muh-Cherng Wu  
National Chiao Tung University | TEL: 886-3-5731913  
Research Theme: Semi-conductor manufacturing management | FAX: 886-3-5720610  
E-mail: mcwu@cc.nctu.edu.tw  
URL: http://www.nctu.edu.tw/english/ |
| Election Study Center | Director Yung-tai Hung  
National Chengchi University | TEL: 886-2-29387134  
Research Theme: Election studies | FAX: 886-2-29384094 |
Private S&T Sector

Development Center for Biotechnology
Research Theme: Development of carbohydrate-based tumor vaccine

Micheal Yet
81, Chang-Hsin Street, Taipei
TEL: 886-2-26957597
FAX: 886-2-26953404
E-mail: myet@mail.dcb.org.tw
URL: http://dcb.org.tw/e_index1.html
Submit ONE copy of this form for each PI/PD and co-PI/PD identified on the proposal. The form(s) should be attached to the original proposal as specified in GPG Section II.B. Submission of this information is voluntary and is not a precondition of award. The information will not be disclosed to external peer reviewers. **DO NOT INCLUDE THIS FORM WITH ANY OF THE OTHER COPIES OF YOUR PROPOSAL AS THIS MAY COMPROMISE THE CONFIDENTIALITY OF THE INFORMATION.**

**PI/PD Name:**

**Gender:**
- [ ] Male
- [ ] Female

**Ethnicity:** (Choose one response)
- [ ] Hispanic or Latino
- [ ] Not Hispanic or Latino

**Race:** (Select one or more)
- [ ] American Indian or Alaska Native
- [ ] Asian
- [ ] Black or African American
- [ ] Native Hawaiian or Other Pacific Islander
- [ ] White

**Disability Status:** (Select one or more)
- [ ] Hearing Impairment
- [ ] Visual Impairment
- [ ] Mobility/Orthopedic Impairment
- [ ] Other
- [ ] None

**Citizenship:** (Choose one)
- [ ] U.S. Citizen
- [ ] Permanent Resident
- [ ] Other non-U.S. Citizen

Check here if you do not wish to provide any or all of the above information (excluding PI/PD name):

REQUIRED: Check here if you are currently serving (or have previously served) as a PI, co-PI or PD on any federally funded project.

---

**Ethnicity Definition:**
- **Hispanic or Latino.** A person of Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture or origin, regardless of race.

**Race Definitions:**
- **American Indian or Alaska Native.** A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.
- **Asian.** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.
- **Black or African American.** A person having origins in any of the black racial groups of Africa.
- **Native Hawaiian or Other Pacific Islander.** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.
- **White.** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

**WHY THIS INFORMATION IS BEING REQUESTED:**

The Federal Government has a continuing commitment to monitor the operation of its review and award processes to identify and address any inequities based on gender, race, ethnicity, or disability of its proposed PIs/PDs. To gather information needed for this important task, the proposer should submit a single copy of this form for each identified PI/PD with each proposal. Submission of the requested information is voluntary and will not affect the organization’s eligibility for an award. However, information not submitted will seriously undermine the statistical validity, and therefore the usefulness, of information received from others. Any individual not wishing to submit some or all the information should check the box provided for this purpose. (The exceptions are the PI/PD name and the information about prior Federal support, the last question above.)

Collection of this information is authorized by the NSF Act of 1950, as amended, 42 U.S.C. 1861, et seq. Demographic data allows NSF to gauge whether our programs and other opportunities in science and technology are fairly reaching and benefiting everyone regardless of demographic category; to ensure that those in under-represented groups have the same knowledge of and access to programs and other research and educational opportunities; and to assess involvement of international investigators in work supported by NSF. The information may be disclosed to government contractors, experts, volunteers and researchers to complete assigned work; and to other government agencies in order to coordinate and assess programs. The information may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, NSF-50, “Principal Investigator/Proposal File and Associated Records,” 63 Federal Register 267 (January 5, 1998), and NSF-51, “Reviewer/Proposal File and Associated Records,” 63 Federal Register 268 (January 5, 1998).
Summer Programs in Japan, Korea and Taiwan
For U.S. Graduate Students in Science and Engineering
(This application must be typewritten.)

APPLICATION TO:
Check which program(s) to which you submit this application. If you wish to be considered for more than one program, indicate your preferences by numerical ranking.

Summer Institute in Japan _____
If you choose only the Summer Institute in Japan, is Japanese language training considered by you to be an essential part of the program? Yes _____ No _____

Monbusho Summer Program _____
Summer Institute in Korea _____
Summer Institute in Taiwan _____

NAME:
_____________________________________________________________________________
Last Name First Name Middle Name Other Names Used
SOCIAL SECURITY NUMBER:     _______-_____-_______

CITIZENSHIP STATUS (Please check):
U.S. CITIZEN _____      U.S. PERMANENT RESIDENT _____
ALIEN REGISTRATION NUMBER __________________

CURRENT HOME MAILING ADDRESS  (for program mailings, cannot be institutional address):
______________________________________________________________________________

PERMANENT HOME ADDRESS:
______________________________________________________________________________

CURRENT ACADEMIC INSTITUTIONAL ADDRESS:
Department ____________________________________________________________
Institution ____________________________________________________________
Address ____________________________________________________________
____________________________________________________________
Office Phone ________________________ Fax   _________________________
Home Phone ________________________ Fax   _________________________
E-mail ____________________________________________________________

Date (MM/YY) when you began graduate studies ______________________________
Current Degree Program:      PhD. _____  M.D. _____  M.S. _____  M.A. _____  Other _____

NSF 1298C 10/95
RECOMMENDATIONS TO BE OBTAINED FROM:
(Do not use your proposed host scientist in Japan, Korea or Taiwan.)

**Academic Research Advisor**

Name ____________________________________________
Department _______________________________________
Institution _______________________________________ 
Phone/Fax/E-mail __________________________________

**One Other**

Name ____________________________________________
Department _______________________________________
Institution _______________________________________ 
Phone/Fax/E-mail __________________________________

PREVIOUS VISITS TO JAPAN, KOREA OR TAIWAN (place, year, duration and purpose):

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

POSITIONS AND AWARDS IN THE LAST THREE YEARS:

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

NSF 1298D 10/95
JAPANESE, KOREAN OR CHINESE LANGUAGE BACKGROUND: Specify courses taken (university level), details of other training (including self-instruction), and any particular strengths you might have in the language. Please note this information is required for planning the language instruction in Japan, Korea or Taiwan and that proficiency in the foreign language is not a prerequisite for participation in the Summer Programs.

I have read this program announcement in detail and have noted the conditions herein.

Signature of Applicant ___________________________ Date _____________
POTENTIAL HOST INSTITUTIONS

(Please see program announcement for the appropriate method to complete this form. List potential host institutions in priority order, and include names and complete contact information of potential host scientist(s) if available.)

NAME OF APPLICANT: _________________________________
STATEMENT OF PURPOSE

(Explain your unique qualifications for participation in the Summer Programs and list the benefits the program will provide to your professional development. May not exceed one page.)

NAME OF APPLICANT: __________________________

NSF 1298G 10/95
DESCRIPTION OF CURRENT RESEARCH

(Provide a summary of your current research projects and interests. This information will be the basis for assignment to an appropriate host laboratory and will be read by potential host scientists. Please write the summary for a technical audience and identify both a general field of study and any specific research interests, especially those relevant to the Japanese, Korean or Taiwan research environment. May not exceed one page.)

NAME OF APPLICANT: ______________________________
RECOMMENDATION FORM

NAME OF APPLICANT: _____________________________________________________

RECOMMENDER:

   Name: _________________________________________________________________
   Department: ____________________________________________________________
   Institution: ____________________________________________________________

1. How long, and in what capacity, have you known the applicant?

2. In specific terms, explain how the Summer Programs will benefit the applicant in his/her research endeavor. What unique approaches, opportunities, or skills will the applicant obtain in Japan, Korea or Taiwan that are unavailable in the United States?
3. Briefly describe the applicant’s research contributions, the quality of the research, and the potential significance of the research to your discipline or field.

4. I rank this applicant in the top _____ (percent) among _______ (number) of graduate students I have supervised over the last _____ (number) years.

5. Please check one of the two statements below. (If space A is checked, the Foundation will honor your request to the extent permitted by law.)
   A. _____ My identity and this report must be held in confidence.
   B. _____ This report may be released to the applicant upon request.

6. [For the Applicant’s Academic Advisor only.] I have read and understand the terms and conditions of the Summer Programs in Japan, Korea and Taiwan, and I endorse my student’s full participation in the program. ________________ (Academic Advisor’s initials here.)

SIGNATURE: _________________________________ DATE ________________

(Please send the completed recommendation form to: East Asia and Pacific Program, Room 935, Division of International Programs, National Science Foundation, 4201 Wilson Blvd., Arlington, VA, 22230. **Do not return to applicant.** Recommendations must be postmarked by December 1. Failure to return this form in a timely fashion will jeopardize the application.)

NSF 1298J 10/95
OMB No.: 3145-0058
NSF 99-152 (Replaces NSF 96-151)