

SUMMER PROGRAMS IN JAPAN AND KOREA

Summer Institute in Japan

For U.S. Graduate Students in Science and Engineering

Monbusho Summer Program

Research Experience Fellowships for Young Foreign Researchers

Summer Institute in Korea

For U.S. Graduate Students in Science and Engineering

Program Announcement

Deadline: December 1, annually



Division of International Programs
NATIONAL SCIENCE FOUNDATION



John E. Fogarty International Center
NATIONAL INSTITUTES OF HEALTH



Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE

Who may apply

The National Science Foundation (NSF), as cosponsor of the Summer Programs together with the National Institutes of Health (NIH) and the Agricultural Research Service (ARS), and as the agency in charge of administering the programs, welcomes applications from all qualified graduate students in science and engineering, including the biomedical and agricultural sciences. NSF, NIH, and USDA strongly encourage women, minorities, and persons with disabilities to compete for these positions. Funding for special assistance or equipment will be provided to enable persons with disabilities to accept these awards (see NSF publication 91-54). NSF has TDD (Telephonic Device for the Deaf) to enable individuals with hearing impairments to communicate with the Foundation for information about NSF programs. The telephone number is (703) 306-0090.

In accordance with Federal statutes and regulations and NSF, NIH, and ARS policies, no person on grounds of race, color, age, sex, national origin, or disability shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity receiving financial assistance from these agencies.

The Foundation provides awards for research in the sciences and engineering. The NIH provides awards for research in the biomedical and health sciences. The ARS provides for agriculture-related research. The awardee is wholly responsible for the conduct of such research and preparation of the results for publication. The Foundation, the NIH, and ARS, therefore, do not assume responsibility for such findings or their interpretation.

Inquiries

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

Japan and Korea Program, Room 935	Tel: (703) 306-1701
Division of International Programs	Fax: (703) 306-0474
National Science Foundation	Email: JKPinfo@nsf.gov
4201 Wilson Boulevard	NSF/INT Homepage: http://www.nsf.gov/sbe/int/intfund.htm
Arlington, VA 22230	

Other Opportunities

In addition to the summer programs, the National Science Foundation provides support for U.S. graduate students in science and engineering to conduct research in Japan and Korea as part of cooperative research projects directed by senior investigators or to engage in dissertation research. The latter is specifically designed to support three to 12 month stays for doctoral students to conduct research in Japan or Korea as part of their dissertation. For more information, please see the Program Announcement entitled "International Opportunities for Scientists and Engineers" (NSF 96-14) or contact the Japan and Korea Program staff at the address and phone number above.

Privacy Act and Public Burden

The information requested on proposal forms is solicited under the authority of the National Science Foundation Act of 1950, as amended. It will be used in connection with the selection of qualified proposals and 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 application review process, award decisions, or the administration of awards; to government contractors, experts, volunteers, and researchers as necessary to complete assigned work; and to other government agencies in order to coordinate programs. See Systems of Records, NSF 50, Principal Investigators/Proposal File and Associated Records, and NSF-51, 60 Federal Register 4449 (January 23, 1995). Reviewer/Proposal File and Associated Records, 59 Federal Register 8031 (February 17, 1994). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of your 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 or any other aspect of this collection of information, including suggestions for reducing this burden, to:

Herman G. Fleming
Reports Clearance Officer
Contracts, Policy, and Oversight
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230

SUMMER PROGRAMS IN JAPAN AND KOREA

Application Deadline: December 1, annually

Overview and Objectives

This program announcement describes three summer programs that provide U.S. graduate students in science and engineering first-hand experience in Japanese and Korean 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 and Korean science and engineering in the context of a research laboratory and to initiate personal relationships that will better enable them to collaborate with Japanese and Korean counterparts in the future. The programs will last approximately eight weeks from June/July to August. Contact the NSF Japan and Korea Program or access the NSF Homepage (<http://www.nsf.gov/sbe/int/intfund.htm>) for current information.

The Summer Institute in Japan for U.S. Graduate Students in Science and Engineering

Background

The Summer Institute was established in 1990 as a result of discussions by the Task Force on Access of the U.S.-Japan Agreement on Cooperation in Research and Development in Science and Technology. The program is sponsored in Japan by concerned government agencies and organizations, and 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. The NSF and the Science and Technology Agency of Japan (STA) are the implementing agencies for the program. The Summer Institute supports about sixty students each year and it is expected that the size of the program will increase in the future. Host institutions for the program include government, university, and corporate laboratories in Tokyo and Tsukuba Science City (located approximately 60 km northeast of Tokyo). Beginning in 1996, Summer Institute participants were also placed at host institutes in the Kansai area, and it is expected that additional institutes outside of Tokyo and Tsukuba will host students in the future.

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**.)
- 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 will not be able to receive intensive language training as part of the program, and may not be able to participate in group lectures and other cultural activities. If the language component of the program is important to you, do not list institutes outside of Tokyo and Tsukuba as potential host sites.

- Intensive language training and practice with Japanese instructors
- Lectures and discussions on Japanese science policy, the history and politics of Japan, and elements of Japanese culture
- 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

The National Science Foundation will pay international travel costs to and from Japan and an allowance of \$2,000 for 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, the U.S. and Japanese supporting agencies agree that dependents are not permitted to accompany participants during the eight-week program.

The Monbusho Summer Program: Research Experience Fellowships for Young Foreign Researchers

Background

The Monbusho Summer Program began in 1993 when NSF and counterpart organizations in Germany and the United Kingdom joined the Japanese Ministry of Education, Science,

Sports, and Culture (Monbusho) in a trial program to invite young foreign researchers to Japan for a summer research experience. The program was formally established in 1995 by Monbusho as the “Research Experience Fellowships for Young Foreign Researchers.” In 1996, there were fourteen participants: eight from the United States, four from the United Kingdom, one from France, and one from Germany. The Monbusho Summer Program shares the same primary objectives as the Summer Institute, but does not offer intensive language training. Individuals participating in the Monbusho Program receive a week of education on Japanese language and culture. After this period, however, they are expected to develop additional language skills on their own. This contrasts with the Summer Institute, in which a portion of each day is devoted to language training. The Monbusho Program also places participants in different research settings throughout Japan. Individuals work in national universities or inter-university research institutes, whereas in the Summer Institute individuals are placed primarily in government or corporate laboratories.

Key Elements

- Program dates: early July 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 internship or cooperative research activities at a national university or inter-university research institute (see Appendix III)
- An introduction to the Japanese language and lectures and discussions on Japanese culture and research policy (one week duration upon arrival in Japan)
- 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

The National Science Foundation will pay international travel costs to and from Japan and an allowance of \$2,000 for 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 Graduate University of Advanced Studies (GUAS) 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, the U.S. and Japanese supporting agencies agree that dependents are not permitted to accompany participants during the eight-week program.

The Summer Institute in Korea for U.S. Graduate Students in Science and Engineering

Background

The United States and the Republic of Korea entered an Agreement for Cooperation in Science and Technology in 1976 (renewed in 1992). Under this Agreement, NSF and the Korea Science and Engineering Foundation (KOSEF) entered a Memorandum of Understanding (MOU) in 1977 (renewed in 1993) to encourage and support S&T cooperation between U.S. and Korean scientists and engineers in all recognized branches of the natural and engineering sciences, including mathematics and related social sciences. The Summer Institute was conceived as a mechanism for making available to U.S. graduate students opportunities for access to Korean centers of excellence through involvement in a summer research program. The Summer Institute began on a trial basis in 1995. NSF and KOSEF entered an agreement under the existing MOU establishing a Special Cooperative Program supporting the Summer Institute in Korea, Exchanges of Scientists and Engineers, and Linking Research Centers. The Ministry of Science and Technology, Republic of Korea, provides funding for these special activities.

Support for approximately 20 U.S. graduate students is provided, with costs being shared by NSF and KOSEF. 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 NSF and KOSEF. Participants in the Summer Institute will be assigned to laboratories mainly in one of three locations: Seoul, Daeduk Science Town (a suburb of Taejeon), or Pohang.

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 internship at a participating Korean research laboratory (see Appendix IV)
- Intensive language training and practice with Korean instructors
- Site visits to Korean centers of scientific and cultural interest
- 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

The National Science Foundation will pay travel costs to and from Korea and an allowance of \$2,000 for each participant. This allowance is meant to compensate in part for loss of summer employment. KOSEF will provide living accommodations as well as allowances for 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, NSF and KOSEF agree that dependents are not permitted to accompany participants during the eight-week program.

Application Procedures for Summer Programs in Japan and Korea

Eligibility

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

1. U.S. citizens or permanent residents;
2. 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 and completed at least one full year in a M.S. program, and;
3. Pursuing studies in fields of science (including social 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-IV).

Evaluation

Applications for the summer programs in Japan and Korea 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 or Korea, the current stature of Japanese or Korean 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 or Korea 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.

Successful applicants will be notified by March. Participants should confirm that they will have adequate time before departure for Japan or Korea 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 or Korea. Holders of valid U.S. passports do not require a visa for stays in Japan of less than 90 days. Participants in the Korea Summer Institute will be required to obtain a Korean visa.

Application Format, Content and Submission

Application materials should be submitted directly to the NSF Japan and Korea 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 Japan and Korea 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, and the Summer Institute in Korea. Given that there are two countries involved and the significant differences in the Summer Institute and the Monbusho Summer Program (the language component in particular), it is extremely important that you carefully consider the program to which you wish to apply. Please check the appropriate program on page 1 of the application form. Should you wish to be considered for more than one program, indicate first, second, and third preferences on the application form.
- 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. (Other institutions may be considered for the Summer Institute in Korea on a case-by-case basis).

Information on many of the institutes and laboratories is available on the World Wide Web. For Japanese host sites, see the NSF Tokyo Homepage (<http://www.twics.com/~nsftokyo/home.html>) as a starting point. A directory of "National Laboratories and Public Research Organizations in Japan" is accessible on the World Wide Web at http://www.jicst.go.jp/inst_dir/index.html and is also available in hard copy at many university libraries and Offices of Sponsored Programs or upon request from the NSF Japan and Korea Program.

List potential host institutions **in priority order** and identify the specific research divisions of the programs that are of particular interest to you. 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 Japan and Korea 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 program and list the benefits the program will provide to your professional development. May not exceed one page.
4. **Description of 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 or Korean research environment. May not exceed one page.

5. Current Curriculum Vitae/Resume

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 M.S. students at least one year of graduate work must have been completed prior to application to the program.

Ten (10) copies of the complete proposal 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 V). The information requested refers only to you, the student applicant.
- 2) **Recommendation Form** (Part 5): One from applicant's research supervisor and two from other faculty members or others qualified to comment on applicant's abilities and potential. Make copies of the recommendation form to give to each referee. The supervisor's recommendation form should include a specific statement of agreement to applicant's participation in the summer program. The letters must be mailed directly by the referees to the Japan and Korea Program at the address below.

All materials must be sent to the Japan and Korea Program at the address below and must be postmarked by December 1.

**Japan and Korea Program, Room 935
Division of International Programs
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230**

Final Reports

Participants will be requested to provide information about their experience prior to departure from Japan or Korea and to complete an NSF Final Report Form 98A upon their return to the United States.

APPENDIX I

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

(* 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: Inserted between quotation marks in the following list are the Internet World Wide Web Homepage addresses (URLs) known to be available as of August 15, 1996. URLs may be changed without notice. For further information, see NSF/Tokyo's Homepage at: <http://www.twics.com/~nsftokyo/home.html>

<i>Institution</i>	<i>FAX Number</i>	<i>Institution</i>	<i>FAX Number</i>
Environment Agency		Tokyo Institute of Technology.....(3) 3729-2082	
National Institute for Environmental Studies*.....(298) 51-4732		"http://www.titech.ac.jp/"	
"http://www.nies.go.jp"		Tokyo Medical and Dental University.....(3) 5803-0100	
Ministry of Agriculture, Forestry, and Fisheries		"http://www.i-mde.tmd.ac.jp/I-MDE.html"	
Forestry and Forest Products Research Institute*.....(298) 74-3720		Ministry of Finance	
"http://ss.ffpri.affrc.go.jp/"		National Research Institute of Brewing.....(3) 3910-6239	
Fruit Tree Research Station*.....(298) 38-6437		Ministry of Health and Welfare	
National Agriculture Research Center*.....(298) 38-8484		Institute of Population Problems.....(3) 3591-4816	
National Food Research Institute*.....(298) 38-7996		Institute of Public Health.....(3) 3446-4314	
"http://ss.nfri.affrc.go.jp/gaiyoE.html"		National Cancer Center Research Institute.....(3) 3545-3567	
National Institute of Agrobiological Resources*.....(298) 38-7408		"http://www.ncc.go.jp/"	
National Institute of Agro-Environmental Sciences*.....(298) 38-8199		National Children's Medical Research Center.....(3) 3414-3208	
National Institute of Animal Health*.....(298) 38-7880		National Institute of Health.....(3) 5285-1150	
"http://ss.niah.affrc.go.jp/"		"http://www.nih.go.jp/"	
National Institute of Animal Industry*.....(298) 38-8606		Tsukuba Primate Center for Medical Science*.....(298) 37-0218	
"http://ss.niai.affrc.go.jp/"		National Institute of Health and Nutrition.....(3) 3202-3278	
National Institute of Sericultural and		National Institute of Health Services Management.....(3) 3202-6853	
Entomological Science*.....(298) 38-6028		National Institute of Health Sciences.....(3) 3707-6950	
National Research Institute of Agricultural		National Institute for Leprosy Research.....(423) 94-9092	
Economics.....(3) 3940-0232		National Institute for Neuroscience.....(423) 44-6745	
National Research Institute of Agricultural		Ministry of Home Affairs	
Engineering*.....(298) 38-7609		Fire Research Institute.....(422) 42-7719	
Japan International Research Center for		Ministry of International Trade and Industry (MITI)	
Agricultural Sciences*.....(298) 38-6316		Agency of Industrial Science and Technology (AIST)	
"http://ss.jircas.affrc.go.jp/"		Electrotechnical Laboratory*.....(298) 54-5087	
Ministry of Construction		"http://www.etl.go.jp/"	
Building Research Institute*.....(298) 64-2989		Geological Survey of Japan*.....(298) 54-3533	
Geographical Survey Institute*.....(298) 64-1658		"http://www.aist.go.jp/GSJ/"	
"http://www.gsi-mc.go.jp/"		Mechanical Engineering Laboratory*.....(298) 58-7033	
Public Works Research Institute*.....(298) 64-2840		"http://www.aist.go.jp/MEL/"	
"http://www.pwri.go.jp/"		National Institute for Advanced Interdisciplinary	
Ministry of Education, Science, and Culture		Research*.....(298) 54-2538	
National Laboratory of High Energy		"http://www.aist.go.jp/NAIR/"	
Physics (KEK)*.....(298) 54-3182		National Institute for Materials and Chemical	
"http://www.kek.jp/"		Research*.....(298) 54-6233	
University of Tsukuba*.....(298) 53-6019		"http://www.aist.go.jp/NLMC/"	
"http://www.tsukuba.ac.jp/"		National Institute for Resources and Environment*.....(298) 58-8118	
University of Tokyo.....(3) 5689-7344		"http://www.aist.go.jp/Htmls/Research/NIRE/NIREhome.html"	
"http://web.yl.is.s.u-tokyo.ac.jp/ut/ut.html"			

<i>Institution</i>	<i>FAX Number</i>	<i>Institution</i>	<i>FAX Number</i>
National Institute of Bioscience and Human Technology*(298) 54-6005 "http://www.aist.go.jp/NIBH/index_e.html"		Railway Technical Research Institute.....(3) 5322-3575 "http://www.rtri.or.jp/"	
National Research Laboratory of Metrology*(298) 54-4135 "http://www.aist.go.jp/Htmls/Research/NRLM/NRLMhome.html"		Remote Sensing Technology Center of Japan(3) 3403-1766 Research Institute of Tuberculosis.....(424) 92-4600	
Ministry of Labor		Semi-Government Research Organizations	
Research Institute of Industrial Safety(424) 91-7846		Institute of Physical and Chemical Research (RIKEN)(484) 62-1554 "http://www.riken.go.jp/"	
Ministry of Posts and Telecommunications		Tsukuba Life Science Center (RIKEN)*(298) 36-2616 "http://www.riken.go.jp/"	
Communications Research Laboratory(423) 27-7458 "http://www.crl.go.jp/index-J.html"		Japan Information Center of Science and Technology(3) 3214-8430 "http://www.jicst.go.jp/"	
Ministry of Transport		National Space Development Agency of Japan*(3) 3436-2928 "http://www.nasda.go.jp/welcome_e.html"	
Hydrographic Department, Japan Maritime Safety Agency.....(3) 3545-2885 "http://www.jhd.go.jp/"		NHK (Japan Broadcasting Corporation) Science and Technical Research Laboratories.....(3) 5494-2418 "http://www.nhk-grp.co.jp/nts/index-e.html"	
Institute for Sea Training(45) 211-7317		Research Development Corporation of Japan (JRDC) ..(48) 226-5651 "http://www.jrdc.go.jp/"	
Meteorological Research Institute*(298) 53-8545 "http://www.mri-jma.jp/"			
Electronic Navigation Research Institute(422) 41-3169 "http://www.enri.go.jp/"			
Ship Research Institute(422) 41-3247			
Traffic Safety and Nuisance Research Institute(422) 41-3233			
National Police Agency		Science and Technology Agency	
National Research Institute of Police Science.....(3) 3261-9986 "http://www.nrips.go.jp/"		National Institute of Radiological Sciences(43) 256-9616 "http://www.nirs.go.jp:8080/"	
Non-Profit Organizations		National Institute for Research in Inorganic Materials*(298) 52-7449 "http://www.nirim.go.jp"	
Institute of Research and Innovation.....(3) 5689-6350		National Institute of Science and Technology Policy(3) 3503-3996 "http://www.nistep.go.jp"	
International Development Center of Japan(3) 3630-8120		National Research Institute for Earth Science and Disaster Prevention*(298) 51-1622 "http://www.bosai.go.jp/"	
International Superconductivity Technology Center.....(3) 3536-5714		National Research Institute for Metals*(298) 53-1010 "http://www.nrim.go.jp"	
Japan Automobile Research Institute(298) 56-1122		National Aerospace Laboratory(422) 48-5888 "http://www.nrim.go.jp"	
Japan Foundation for Cancer Research.....(3) 3918-0167			
Japan Weather Association(3) 3295-1097 "http://www.jwa.go.jp/"			
Japan Wildlife Research Center.....(3) 3813-8958			

PLEASE 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 above.

APPENDIX II

Japanese Corporate Host Institutions for the Summer Institute in Japan Program

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

NOTE: Inserted between quotation marks in the following list are the Internet World Wide Web Homepage addresses (URLs) known to be available as of August 15, 1996. URLs may be changed without notice. For further information, see NSF/Tokyo's Homepage at: <http://www.twics.com/~nsftokyo/home.html>

1. **Chodai Company, Ltd.** Established in 1978 as a designing and engineering consulting firm specializing in long-span suspension bridges, Chodai has contributed much to the development of such large-scale bridges as the ones connecting Honshu and Shikoku islands and many others, not only in Japan but also in Southeast Asia. Contact Person: Mr. Miki Yamashina, Deputy Department Manager, Large Scale Bridge Department, E&C Center.

Fax Number: (298) 55-2221

Potential host research groups and research themes:

- Labs in "Large-scale Bridge Department" involved in planning and designing large-scale bridges (such as long-span suspension bridges), structural analysis, and R&D on anti-earthquake and wind-resistant bridge structures numerical simulation and experimental analysis).

2. **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 industrial robots, CAD/CAM systems, and display units. Contact Person: Mr. Yoshitane Yamanaka, Manager, MEC Laboratory.

Fax Number: (298) 58-5082

URL: "http://www.star-net.or.jp/daikin/index_e.html"

Potential research themes:

- For students majoring in mechanical engineering: research related to cryogenic systems.
- For students majoring in electronics: research related to superconducting materials.

3. **Eisai Co., Ltd.** A leading pharmaceutical producer specializing in ethical drugs. Cardiovascular drugs are main-

line but the company has advanced into anti-inflammatory analgesics and antibiotics. Contact Person: Mr. Toshiharu Ogo, R&D Headquarters, Tsukuba Research Laboratory. Fax Number: (298) 47-5392

Potential research themes:

- Pharmaceutical studies, including synthesis, pharmacology, biochemistry, metabolism, biotechnology, and drug preparations.

4. **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. Takeshi Sato, Chief Manager, Exploratory Research Laboratory.

Fax Number: (298) 47-8610

Potential host research groups and research themes:

- 1) Exploratory Research Laboratory:
 - Synthesis group: natural products chemistry
 - Bio-science group: pharmacological evaluation
 - Enzyme group: Immunology and/or cancer biology

- 2) Basic Research Group:
 - Clarification of causative factors of the following diseases by means of pharmacological and biochemical analysis in order to develop innovative drug screening applications:
 - a. Diabetes mellitus and diabetic complications
 - b. Stress-induced diseases (affecting central and peripheral nervous systems)

5. **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, Central Research Laboratory.
- Fax Number: (53) 586-6180
URL: "<http://www.infoweb.or.jp/jes95/info/117.html>"
- Potential research themes:
- "Photonic" (optoelectronic) studies on biodynamics
6. **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. Kuniji Kawasaki, Manager, Administration and Accounting Section, Tsukuba Research Laboratory.
- Fax Number: (298) 64-4008
- 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
7. **Hitachi, Ltd.** Nation's largest comprehensive electric machinery manufacturer. Semiconductors and computers mainstays. Has many promising subsidiaries in varied fields, including chemicals, wire and cable and shipbuilding. Contact Person: Dr. Norio Saito, Chief Researcher, Central Research Laboratory.
- Fax Number: (423) 27-7704
URL: "<http://www.hitachi.co.jp/Rd/index.html>"
- Potential research themes:
- 1) Compound semiconductors, thin films, polymer materials, solid state physics
 - 2) Superconducting materials, file memory materials
- 3) Process and materials for ULSI, ULSI devices
 - 4) Electron and ion beam, optical applications
 - 5) Telecommunication systems, image processing systems
 - 6) Artificial intelligence
 - 7) Computer systems, advanced information processing
 - 8) Medical electronics
8. **Hodogaya Chemical Co., Ltd.** One of Japan's leading manufacturers of a wide range of chemicals, including dyes, organic and inorganic industrial chemicals, agricultural chemicals, functional resins, and fine chemicals. Enjoys superior position in information-related pigments used in facsimiles. Contact Person: Mr. Tetsuzo Miki, Manager, Tsukuba Research Laboratory.
- Fax Number: (298) 58-6894
- Potential research themes:
- Studies on microbial natural enemies of plant-parasitic nematodes in soil, in order to develop biological pesticides for agricultural use.
9. **Kajima Corporation.** One of the top general contractors. Strong in large-scale civil engineering projects, such as construction of nuclear power plants. Pioneer in skyscraper construction in Japan. Active in developing markets in advanced countries. Contact Person: Mr. Yoshiharu Asaka, Manager, Human Resources Development Section, Kajima Corporation.
- Fax Number: (3) 3746-7248
URL: "<http://www.kajima.co.jp/>"
- Potential research themes:
- 1) Construction materials and methods of execution
 - 2) Soil mechanics and foundations
 - 3) Geology and rock mechanics
 - 4) Structural safety and earthquake engineering
 - 5) Ironmetal control technology
 - 6) Marine structures and hydraulic modeling
10. **Kumagai Gumi Co., Ltd.** One of largest construction contractors, with strong performance overseas. Particularly active in dam, tunnel, and other large-scale civil engineering, but also well-established in general construction. Leads rivals in overseas markets, particularly in advanced countries, including the United States and Australia. Contact Person: Mr. Kazuhiro Nawata, Tsukuba Technology Research Laboratory.
- Fax Number: (298) 47-7480
URL: "<http://www.canadex.com/access-japan/kumagai.html>"

Potential host research groups and research themes:

- Civil works structure lab, building structure lab, soil foundation lab, marine hydraulics lab, equipment lab, and environment R&D lab.

11. **Mitsubishi Petrochemical Co., Ltd.** The largest petrochemical enterprise in Japan, jointly established by the Mitsubishi and Shell groups. It has petrochemical complex centers at Kashima and Yokkaichi. Main products are polyethylene, polypropylene, ethylene glycol, and styrene monomer from mainlines. Now diversifying into high-function products and pharmaceuticals. Contact Person: Mr. Noriyuki Nagai, Chief Manager for Administration, Tsukuba Research Center.

Fax Number: (298) 87-6925

Potential host research groups and research themes:

- 1) Biochemicals Group:
 - Studies on microorganisms to analyze genetic regulatory mechanisms
- 2) Materials Characterization & Analysis Lab:
 - Isolation of metabolites from natural products and their structural analysis
 - Surface structural analysis of new materials

12. **NEC Corporation.** One of Japan's representative high-tech enterprises. Globally known for the "NEC" brand. Involved in the "C&C Strategy," designed to integrate communications and computers by taking advantage of the world's largest production of semiconductors. Contact Person: Mr. Jun Yabumoto, General Affairs Department, Tsukuba Research Laboratories.

Fax Number: (298) 56-6131

URL: "http://www.nec.co.jp/english/r_and_d/index.html"

Potential host research groups and research themes:

- 1) Fundamental Research Laboratories: new semiconductor devices and film deposition technology
- 2) Microelectronics Laboratories
- 3) Optoelectronics Laboratories

13. **Nippon Telegraph and Telephone Corporation (NTT).** Japan's largest telecommunications company. Ranks second in the world next to AT&T. Converted from public corporation to private company in 1986. Previously enjoyed monopolistic position in telecommunications industry but now competing with newcomers. Promoting digitization of switchboards to spread ISDN service. Contact Person: Mr. Yoshitake Suzuki, Associate Manager, General Management Group, NTT Research and Development Management Department.

Fax Number: (3) 3595-4523

URL: "<http://www.ntt.jp/ntt/ntt/>"

Potential host research groups and research themes:

- R&D on telecommunication networks, next generation switching systems, software development and interdisciplinary research in the area of communication and network technologies.

14. **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. Koichi Kitamura, Deputy Director, Research Institute.

Fax Number: (3) 3495-6734

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) Physicochemical analysis, drug metabolism
- 7) Toxicology, laboratory animal science
- 8) Product formulation and analysis
- 9) Synthetic chemistry
- 10) Organic and environmental chemistry

15. **Sanyo Electric Co., Ltd.** Major consumer electronics maker, particularly strong in audio systems and refrigerators. Holds largest market share in solar cells. Contact Person: Mr. Shigeo Suzuki, 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) Molecular Electronics Lab: Studies on memory and learning mechanisms of mollusca
- 2) New Materials Lab: Development of superconducting films by molecular beam epitaxy (MBE)
- 3) Semiconductor Microstructural Processing Lab: X-ray lithography by SR system

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, Human Resources, Research Center.

Fax Number: (3) 5448-7442

URL: "<http://www.sony.co.jp/>"

Potential research themes:

- R&D on electronic devices and materials (excluding semiconductors), digital signal processing, 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 LCs. Enjoys good performance in JV production in the United States. Strengthening U.S. plant (in Ohio). Contact Person: Dr. Hiroaki Sugino, Chief Researcher, Tsukuba Research Center.

Fax Number: (298) 47-4165

URL: "<http://www.trc-net.co.jp/Stanley-E.html>"

Potential host research group and research themes:

- R&D Group 900G, a group engaged in biotechnology and organic semiconductor materials R&D.

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. Now placing emphasis on expansion of fine chemical products to 50% of total annual sales. Contact Person: Dr. Yasunari Zenpo, Technical Department, Tsukuba Research Laboratory.

Fax Number: (298) 64-4729

URL: "<http://www.sumitomo-chem.co.jp/>"

Potential host research group and research themes:

- Optoelectronics Division:
 - Development of ferroelectric liquid crystals
 - Development of organic electroluminescent materials

19. **Sumitomo Heavy Industries, Ltd.** Major shipbuilder belonging to the Sumitomo group. Diversified into steel making, cargo handling, construction, injection molding,

and other machine building--shipbuilding is no longer the company's main line. Ranks first in speed change and reduction gears. Two locations: Tsukuba and Tokyo. Contact Person (Tsukuba): Dr. Yasuyuki Aikawa, Deputy General Manager, Electron Beam Irradiation Center. Fax Number: (298) 47-5515. Contact Person (Tokyo): Mr. Yasuo Kanai, Manager, Planning and Administration Section, Systems Engineering Laboratory.

Fax Number: (414) 68-4423

Potential host research group (Tsukuba) and research themes:

- Electron-beam Radiation Group: Electron beam radiation experiments (by use of a "Dynamitron" electron-beam accelerator) for application in the sterilization of medical devices, as well as radiation chemistry research into strengthening plastics and other materials.

Potential research themes (Tokyo):

- 1) Information processing (human interface, image processing neural networks)
- 2) Measurement and control (process control)
- 3) Electronics (power supply for laser beam, controller systems)
- 4) Electrical and mechanical actuation, hydraulic and pneumatic servo systems
- 5) Robotics and mechanical automation systems.

20. **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. Takashi Haruna, Head, General Affairs Division, Tsukuba Research Laboratories.

Fax Number: (298) 64-6050

Potential research themes:

- 1) Organic synthesis
- 2) Analytical chemistry (organic microanalysis, including quantitative, qualitative, and structural analysis).

21. **Toshiba Corporation.** 2nd largest all-round electric machinery maker. Cooperates with GE (US) in nuclear power generation. Has tie-up relations with leading foreign companies, including Siemens (Germany) in semiconductors and Olivetti (Italy) in computers. Strengthening ties with AT&T in communications field. Contact Person: Mr. Yasuo Horibe, Special Representative - International, Administration Division, Research & Development Center.

FAX Number: (3) 5444-9200
URL: "http://www.toshiba.co.jp/index.htm"

Potential host research groups and research themes:

- ULSI Research Center - As a key component of electronic systems, LSIs have promoted the latest stages of technological innovation. Toshiba is aiming at creating new, original LSI technology to realize more highly integrated, higher density, higher speed ULSIs by working together with the company's materials and systems research divisions. The Center has the following four research departments.

- 1) Systems Research Dept.
- 2) Process Research Dept.
- 3) Device Research Dept.
- 4) ULSI Development Dept.

22. **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

Potential research themes:

- 1) Vapor deposition polymerization of organic polymer films and their applications
- 2) Surface treatment of materials to be used in super- and ultra-high vacuum systems

PLEASE 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 above.

APPENDIX III

List of Potential Host Institutions for the Monbusho Summer Program

(*denotes institutions constituting schools and departments in the Graduate University for Advanced Studies)

NOTE: Inserted between quotation marks in the following list are the Internet World Wide Web Homepage addresses (URLs) known to be available as of August 15, 1996. URLs may be changed without notice. For further information, see NSF/Tokyo's Homepage at: <http://www.twics.com/~nsftokyo/home.html>

NATIONAL INTER-UNIVERSITY RESEARCH INSTITUTES:

National Laboratory for High Energy Physics (KEK)*

"<http://www.kek.jp/>"

Research into elementary particles using high energy particle-accelerators, research by synchrotron radiation facilities and other related programs

National Institute of Polar Research*

"<http://www.nipr.ac.jp/>"

Comprehensive scientific research of the polar regions and observation activities thereon

National Institute of Japanese Literature

"<http://www.nijl.ac.jp/>" (only in Japanese)

Investigation, collection, classification and safekeeping of books and other reference materials on Japanese literature

National Museum of Ethnology*

"<http://www.minpaku.ac.jp/>" (only in Japanese)

Collection and safekeeping of materials on various races in the world as well as their exhibition before the public and research of ethnology

Institute of Space and Astronautical Science

"<http://www.isas.ac.jp/>"

Research on space science and engineering and their application

Okazaki National Research Institutes*

"<http://ccinfo.ims.ac.jp/map/index.html>"

Institute for Molecular Science*

"<http://ccinfo.ims.ac.jp/index.html>"

Research into structures and functions of molecules and theoretical research pertaining thereto

National Institute for Basic Biology*

"<http://www.nibb.ac.jp/index.html>"

Comprehensive study on basic biology

National Institute for Physiological Sciences*

"<http://www.nips.ac.jp/index.html>"

Comprehensive study on physiology

National Museum of Japanese History

Collection, safekeeping and public exhibition of Japanese historical, archaeological and folk materials, and research pertaining thereto

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

National Center for Science Information System

"<http://www.nacsis.ac.jp/nacsis.f-index.html>"

Collection, classification and provision of scientific information, and research and development on scientific information system

International Research Center for Japanese Studies*

International and interdisciplinary research into Japanese culture and research cooperation with Japanologists abroad

National Observatory*

"<http://www.nao.ac.jp/>"

Research on astronomy and its related fields, observation of astronomical phenomena, compilation of almanacs, "Japanese Standard Time Casting," determination and presentation of the Standard Time, and testing of clocks

National Institute for Fusion Science*

"<http://www.nifs.ac.jp/index.html>"

Theoretical and applied research on nuclear fusion plasma

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

HOKKAIDO AREA

Hokkaido University

"<http://www.hokudai.ac.jp/welcome-e.html>"

Hokkaido University of Education
"http://www.iwa.hokkyodai.ac.jp/"
Muroran Institute of Technology
"http://www.muroran-it.ac.jp/"
Obihiro University of Agriculture and Veterinary Medicine
Asahikawa Medical College
Kitami Institute of Technology

TOHOKU AREA

Hirosaki University
"http://www.hirosaki-u.ac.jp/"
Iwate University
"http://takuboku.cc.iwate-u.ac.jp/"
Tohoku University
"http://www.tohoku.ac.jp/"
Miyagi University of Education
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
University of Library and Information Science
"http://ulispsn.ulis.ac.jp:8001/html/ENG_homepage.html"
University of Tsukuba
"http://www.tsukuba.ac.jp/"
Utsunomiya University
"http://www.utsunomiya-u.ac.jp/"
Gunma University
"http://www.la.gunma-u.ac.jp/"
Saitama University
"http://www.ke.ics.saitama-u.ac.jp/index_english.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/I-MDE.html"
Tokyo University of Foreign Studies
"http://www.tufs.ac.jp/index.html"
Tokyo Gakugei University
"http://www.u-gakugei.ac.jp/"
Tokyo University of Agriculture and Technology
"http://www.tuat.ac.jp/"
Tokyo Institute of Technology
"http://www.titech.ac.jp/"
Tokyo University of Mercantile Marine
Tokyo University of Fisheries
Ochanomizu University
"http://www.ocha.ac.jp/" (only in Japanese)
The University of Electro-Communications
"http://www.uec.ac.jp/"
Hitotsubashi University
"http://www.higashi.hit-u.ac.jp/info-ind.html"

Yokohama National University
"http://www.ynu.ac.jp/ynu/ynu-e.html"
The Graduate University for Advanced Studies

KOSHINETSU AREA

Niigata University
"http://www.cc.niigata-u.ac.jp/"
Nagaoka University of Technology
Joetsu University of Education
Yamanashi University
"http://www.yamanashi.ac.jp/"
Yamanashi Medical College
Shinshu University

HOKURIKU AREA

Toyama University
"http://www.toyama-u.ac.jp/"
Toyama Medical and Pharmaceutical University
"http://www.toyama-mpu.ac.jp/" Kanazawa University
Japan Advanced Institute of Science and Technology,
Hokuriku
"http://www.jaist.ac.jp/"
Fukui University
"http://www.icpc.fukui-u.ac.jp/"
Fukui Medical School

TOKAI AREA

Gifu University
Shizuoka University
Hamamatsu University School of Medicine
Nagoya University
"http://www.nagoya-u.ac.jp/"
Aichi University of Education
Nagoya Institute of Technology
"http://www.nitech.ac.jp/"
Toyohashi University of Technology
"http://www.tut.ac.jp/"
Mie University
"http://www.mie-u.ac.jp/english.html"

KANSAI-KINKI AREA

Shiga University
"http://www.shiga-u.ac.jp/"
Shiga University of Medical Science
"http://www.shiga-med.ac.jp/index-e.html"
Kyoto University
"http://www.kyoto-u.ac.jp/"
Kyoto University of Education
Kyoto Institute of Technology
"http://www.kit.ac.jp/"
Osaka University
"http://www.osaka-u.ac.jp/Osaka-u.html"
Osaka University of Foreign Studies
"http://www.osaka-gaidai.ac.jp/index-e.html"
Osaka Kyoiku University
"http://www.okumedia.oc.osaka-kyoiku.ac.jp/"

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
Nara University of Education
"http://www.nara-edu.ac.jp/"
Nara Women's University
Nara Institute of Science and Technology
"http://www.aist-nara.ac.jp/"
University of Wakayama
"http://www.wakayama-u.ac.jp/"

CHUGOKU AREA

Tottori University
Shimane University
Shimane Medical University
"http://www.shimane-med.ac.jp/"
Okayama University
"http://www.okayama-u.ac.jp/index_e.html"
Hiroshima University
"http://www.hiroshima-u.ac.jp/"
Yamaguchi University

SHIKOKU AREA

The University of Tokushima
"http://tokushima-u.ac.jp/"
Naruto University of Education
"http://www.naruto-u.ac.jp/"
Kagawa University
Kagawa Medical School
Ehime University
"http://ccs42.dpc.ehime-u.ac.jp:8000/"

Kochi University
"http://www.is.kochi-u.ac.jp/"
Kochi Medical School

KYUSHU-OKINAWA AREA

Fukuoka University of Education
"http://hcs.fukuoka-edu.ac.jp/"
Kyushu University
"http://www.kyushu-u.ac.jp/"
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
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/"
Medical College of Oita
Miyazaki University
"http://www.miyazaki-u.ac.jp/"
Miyazaki Medical College
"http://www.miyazaki-med.ac.jp/"
Kagoshima University
"http://www.kagoshima-u.ac.jp/"
National Institute of Fitness and Sports in Kanoya
University of The Ryukyus
"http://www.ie.u-ryukyuu.ac.jp/"

APPENDIX IV

List of Potential Host Institutions for the Summer Institute in Korea Program

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

Institution

Address and Phone/FAX Number

Science Research Centers

Topology and Geometry Research Center (TGRC)
Kyungpook National University

Director: Prof. U-Hang Ki
1370 Sankyunk-Dong
Taegu 702-701
Tel: 82-53-950-6830/6832
Fax: 82-53-959-1717

Center for Theoretical Physics (CTP)
Seoul National University

Director: Prof. Hi-Sung Song
San 56-1, ShinrimDong Kwanak-ku
Seoul 151-742
Tel: 82-880-6523, 886-4589
Fax: 82-884-7167

Semiconductor Physics Research Center (SPRC)
Jeonbuk National University

Director: Prof. Hyung-Jae Lee
Jeonju Jeonrabook Do 560-756
Tel: 82 652-70-3607
Fax: 82-652-70-3320

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

Research Center for Molecular Microbiology (RCMM)
Seoul National University

Director: Prof. Yung-Chil Hah
San 56-1, Shinrim-Dong, Kwanak-ku
Seoul 151-742
Tel: 82-2-880-6710
Fax: 82-2-888-4911

Plant Molecular Biology and Biotechnology
Research Center (PMBBRC)
Gyeongsang National University

Director: Prof. Moo-Je Cho
900 Kajwa-Dong
Chinju 660-701
Tel: 82-591-751-5957
Fax: 82-591-759-9363

Global Analysis Research Center (GARC)
Seoul National University

Director: Prof. Sang-Moon Kim
San 56-1, Shinrim-Dong, Kwanak-Ku
Seoul 151-742
Tel: 82-2-880-6710
Fax: 82-2-888-4911

Research Center for Dielectric
and Advanced Matter Physics (RCDAMP)
Pusan National University

Director: Prof. Min-Su Jang
30 Jangjun-tong, Kumjeong-Ku
Pusan 609-735
Tel: 82-51 -510-1868/9
Fax: 82-51-515-2390

Center for Biofunctional Molecules (CBM)
Pohang University of Science and Technology

Director: Prof. Dong-Han Kim
San 31 Hyoja-Dong
Pohang 790-784
Tel: 82-562-279-5862/3
Fax: 82-562-279-2101

Center for Molecular Science (CMS)
KAIST

Director: Prof. Mu-Shik Jhon
373-1, Kusung-Dong, Yuseong-Ku
Taejon 305-701
Tel: 82-42-829-3121/3
Fax: 82-42-829-8130

Research Center for Cell Differentiation (RCCD)
Seoul National University

Director: Prof. Man-Sik Kang
San 56-1, Shinrim-Dong Kwanak-Ku
Seoul 151-742
Tel: 82-2-880-6686/6
Fax: 82-2-872-1993

Cancer Research Center (CRC)
Seoul National University

Director: Prof. Woo-Hyun Chang
28 Yongon-Dong, Chongno-Ku
Seoul 110-799
Tel: 82-2-760-2400; 82-2-764-0329
Fax: 82-2-766-4477

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

Research Center for New Bio-Materials in Agriculture (RCNBMA)
Seoul National University

Director: Prof. Kwan-Hwa Park
103 Seodung-Dong, Kwonsun-Ku
Suwon 441 -744
Tel: 82-331-290-2028; 82-331-294-1609
Fax: 82-331-2941336

Engineering Research Centers

Advanced Fluids Engineering Research Center (AFERC)
Pohang University of Science and Technology

Director: Prof. Chung-Mook Lee
Sang 31 Hoyja-Dong
Pohang 790-784
Tel: 82-562-279-5904
Fax: 82-562-279-3199

Center for Artificial Intelligence Research (CAIR)
KAIST

Director: Prof. Jung-Wan Cho
373-1 Kusong-Dong, Yuseong-Ku
Taejon 01-701
Tel: 82-42-869-8711/3
Fax: 82-42-869-8700

Sensor Technology Research Center (STRC) Kyungpook National University	Director: Prof. Byung-Ki Sohn 1370 Sankyunk-Dong Taegu 702-701 Tel: 82-53-950-6825, 952-8743 Fax: 82-53-950-6827
Satellite Technology Research Center (SaTReC) KAIST	Director: Prof. Soon-Dal Choi 373-1 Kusong-Dong, Yuseong-Ku Taejeon 305-701 Tel: 82-42-869-8612 Fax: 82-42-869-0064
Research Center for Thin Film Fabrication and Crystal Growing of Advanced Materials (RETCAM) Seoul National University	Director: Prof. Dong-Nyung Lee San 56-1, Shinrim-Dong Kwanak-Ku Seoul 151-742 Tel: 82-2-880-7446 Fax: 82-2-886-4156
BioProcess Engineering Research Center (BPERC) KAIST	Director: Prof. Ho-Nam Chang 373-1 Kusong-Dong, Yuseong-Ku Taejeon, 305-701 Tel: 82-42-869-8811/2 Fax: 82-42-869-8800
Animal Resources Research Center (ARRC) Kon-Kuk University	Director: Prof. Chang-Woo Kim 93-1 Mojin-Dong, Sungdong-Ku Seoul 133-701 Tel: 82-2-457-3903/82-2-450-3666 Fax: 82-2-455-1044
Research Center for New Drug Development (RCNDD) Seoul National University	Director: Prof. Won-Keun Chung San 56-1, Shinrim-Dong Kwanak-Ku Seoul 151-742 Tel: 82-2-880-7832 Fax: 82-2-874-2203
Rapidly Solidified Materials Research Center (RASOM) Chungnam National University	Director: Prof. Byung-Sun Chun 220, Kung-Dong, Yuseong-Ku Taejeon 305-335 Tel: 82-42-82-6587/9 Fax: 82-42-822-9401
Center for Interface Science and Engineering of Materials (CISEM) KAIST	Director: Prof. Duk-Young Yoon 373-1 Kusong-Dong, Yuseong-Ku Taejeon, 305-701 Tel: 82-42-869-8919, 3312 Fax: 82-42-869-8920
Engineering Research Center for Advanced Control and Instrumentation (ERC-ACI) Seoul National University	Director: Prof. Wook-Hyun Kwon San 56-1, Shinrim-Dong Kwanak-Ku Seoul 151-742 Tel: 82-2-880-7318 Fax: 82-2-888-4182

Turbo and Power Machinery Research Center (TPMRC)
Seoul National University

Director: Prof. Sung-Tack Ro
San 56-1, Shinrim-Dong Kwanak-ku
Seoul 151-742
Tel: 82-2-880-5513
Fax: 82-2-883-0179

Center for Advanced Reactor Research (CARR)
KAIST

Director: Prof. Byong-Whi Lee
373-1 Kusong-Dong, Yusung-Ku
Taejon, 301-701
Tel: 82-42-869-8851, 8853
Fax: 82-42-869-8860

Research Center for Catalytic Technology (RCCT)
Pohang University of Science and Technology

Director: Prof. Yong-Gul Kim
San 31 Hyoja-dong
Pohang 790-784
Tel: 82-562-279-5800
Fax: 82-562-279-5799

Automation Research Center (ARC)
Pohang University of Science and Technology

Director: Prof. Kun-Soo Chang
San 31 Hyoja-Dong
Pohang 790-784
Tel: 82-562-279-5958
Fax: 82-562-279-3499

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: 82-51-627-1095
Fax: 82-51-627-1096

Bioproducts Research Center (BRC)
Yonsei University

Director: Prof. Bru-Ryang Pyun
340 Shinchon-Dong, Sodaemun-Ku
Seoul 120-749
Tel: 82-2-361-3591; 82-2-361-6820
Fax: 82-2-312-6821

Opto-Electronics Research Center (OERC)
KAIST

Director: Prof. Yong-Se Kwon
373-1 Kusong-Dong, Yusung-Ku
Taejon, 301-701
Tel: 82-42-869-8559/8551
Fax: 82-42-869-8560

Advanced Structure Research Station (STRESS)
Hanyang University

Director: Prof. Li-Hyung Lee
17, Haengdong-Dong, Sungdong-Ku
Seoul 133-791
Tel: 82-2-290-0304/0308; 82-2-292-0768
Fax: 82-2-292-2414

Center for Advanced Aerospace Materials (CAAM)
Pohang University of Science and Technology

Director: Prof. Nack-Joon Kim
San 31 Hyoja-Dong
Pohang 790-784
Tel: 82-562-279-2820/2135
Fax: 82-562-279-2399/5887

Engineering Research Center for Net-Shape
and Die Manufacturing (NSDM)
Pusan National University

Director: Prof. Jae-Chan Choi
30, Jangjun-Dong, Kumjeong-Ku
Pusan 609-735
Tel: 82-51 -510-1491/2
Fax: 82-51 -512-1722

Government Related Research Institutes

Korea Institute of Science and Technology (KIST)

39-1 HawallGok-Dong Sungbuk-Ku
Seoul
Tel: 82-02-962-8801
Fax: 82-02-963-4013

System Engineering Research Institute (SERI)

1 Eoun-Dong Yousung-ku
Daejon City
Tel: 82-042-860-4114
Fax: 82-042-861-1999

Genetic Engineering Research Institute (GERI)

1 Eoun-Dong Yousung-Ku
Daejon City
Tel: 82-042-860-4114
Fax: 82-042-861-1759

Science and Technology Policy Institute (STEPI)

207-43 ChungYangri-Dong
DongdaeMun-ku
Seoul
Tel: 82-02-962-8801
Fax: 82-02-964-3741

Korea Ocean Research and Development Institute (KORDI)

385 Block Sa-Dong Ansan City
Kyeongki-Do
Tel: 82-02-863-4770
Fax: 82-0345-82-6698

Korea Atomic Energy Research Institute (KAERI)

150 DukJin-Dong Yousung-Ku
Daejon City
Tel: 82-042-820-2000
Fax: 82-042-820-2702

Korea Research Institute of Standards and Science (KRISS)

1 Doryung-Dong Yousung-Ku
Daejon City
Tel: 82-042-861 -7200
Fax: 82-042-861-1494

Electronics and Telecommunications Research
Institute (ETRI)

161 Kajung-Dong Yousung-Ku
Daejon City
Tel: 82-042-860-6114
Fax: 82-042-861-1033

Korea Research Institute of Chemical Technology (KRICT)

100 Chang-Dong Yousung-Ku
Daejon City
Tel: 82-042-821-7114
Fax: 82-042-861-7022

Korea Institute of Geology Mining and Materials (KIGAM)	100 Chang-Dong Yousung-Ku Daejon City Tel: 82-042-868-3114 Fax: 82-042-861-9720
Korea Institute of Energy and Resources (KIER)	66 SangNam-Dong Yousung-Ku ChangWon City Tel: 82-042-860-3114 Fax: 82-042-861-6224
Korea Institute of Machinery and Metals (KIMM)	66 SangNam-Dong Yousung-Ku ChangWon City Kyeung Nam Tel: 82-0551-80-3000 Fax: 82-0551-80-3333
Korea Research Institute of Ships and Ocean Engineering (KEISO)	171 Chang-Dong Yousung-Ku Daejon City Tel: 82-042-861-7401 Fax: 82-042-820-7711
Korea Aerospace Research Institute (KARI)	171 Chang-Dong Yousung-Ku Daejon City Tel: 82-042-861-7746 Fax: 82-042-820-7800
Korea Ginseng and Tobacco Research Institute (KGTRI)	302 Sinsung-Dong Yousung-Ku Daejon City Tel: 82-042-861-5070 Fax: 82-042-861-1979
Private Research Institutes	
Samsung Advanced Institute of Technology (SAIT)	San 141- Neungeo-ri Kiheung-Uop Yongin-ku Suwan City Keyungi-Do Tel: 82-0331 -280-9114 Fax: 82-0331-280-9099
Institute for Advanced Engineering (IAE)	541 5 Ka Namdaemun-Ro Chung-Ku Seoul City Tel: 82-02-759-3654 Fax: 82-02-726-2873

APPENDIX V

INFORMATION ABOUT PRINCIPAL INVESTIGATORS/PROJECT DIRECTORS

Submit only ONE copy of this form with your proposal. Attach it on top of the cover page of the copy of your proposal that bears the original signatures. Leave the back of the page blank. Do not include this form with any of the other copies of your proposal, as this may compromise the confidentiality of the information. Submission of this form is required before processing will be initiated.

	Principal Investigator/ Project Director	First Additional PI/PD	Second Additional PI/PD	Third Additional PI/PD	Fourth Additional PI/PD
Please check the appropriate answers to each question for all principal investigator(s)/project director(s) listed on the cover page, using the same order in which they were listed there:					
1. Is this person:					
Female	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Male	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is this person a U.S. citizen?					
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Which one of these categories* best describes this person's ethnic/racial status? (If more than once category applies, use the category that most closely reflects the person's recognition in the community.)					
American Indian or Alaskan Native	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asian or Pacific Islander	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black, not of Hispanic Origin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hispanic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
White, not of Hispanic Origin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does this person have a handicap that limits a major life activity?					
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check here if this person does not wish to provide some of all of the above information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>* AMERICAN INDIAN OR ALASKAN NATIVE: A person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.</p> <p>ASIAN OR PACIFIC ISLANDER: A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands and Samoa.</p> <p>BLACK, NOT OF HISPANIC ORIGIN: A person having origins in any of the black racial groups of Africa.</p> <p>HISPANIC: A person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.</p> <p>WHITE, NOT OF HISPANIC ORIGIN: A person have origins in any of the original peoples of Europe, North Africa, or the Middle East.</p>					

WHY THIS INFORMATION IS BEING REQUESTED:

The National Science Foundation 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 handicap of the proposed principal investigators and co-principal investigators. To gather the information needed for this important task, NSF requires that a single copy of this form be submitted with each proposal; however, submission of the requested information is not mandatory and is not a precondition of award. Any individual not wishing to submit the information should check the box provided for this purpose.

Information from this form will be retained by NSF as an integral part of its Privacy Act Records System, NSF-29, "Proposal and Award Information." These are confidential files accessible only to NSF personnel, and will be treated as confidential to the extent permitted by law. Data submitted will be used in accordance with criteria established by the National Science Board for the selection of projects, published in NSF 83-57, "Grants for Research and Education in Science and Engineering."

APPLICATION FORM

1

page 1

Summer Institute in Japan, Monbusho Summer Program and Summer Institute in Korea

(This application must be typewritten.)

APPLICATION TO:

Check which program you wish to apply for. If you wish to be considered for more than one program, indicate first, second, and third preferences.

Summer Institute in Japan _____

Monbusho Summer Program _____

If you choose only the Summer Institute in Japan, is daily Japanese language training considered by you to be an essential part of the program? yes ___ no ___

Summer Institute in Korea _____

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 (academic year)

PERMANENT HOME MAILING ADDRESS

CURRENT ACADEMIC ADDRESS

Department _____

Institution _____

Address _____

Office Phone _____ FAX _____

Home Phone _____ FAX _____

E-mail address _____

Date (Month/Year) when you began graduate studies _____

APPLICATION FORM

1

page 2

RECOMMENDATIONS TO BE OBTAINED FROM:

(do not use your proposed host scientist in Japan or Korea)

Academic Advisor

Name _____

Department _____

Institution _____

Phone/FAX/e-mail _____

Two Others

Name _____

Department _____

Institution _____

Phone/FAX/e-mail _____

Name _____

Department _____

Institution _____

Phone/FAX/e-mail _____

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

POSITIONS AND AWARDS IN THE LAST THREE YEARS

APPLICATION FORM

1

page 3

JAPANESE OR KOREAN 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 and Korea and that proficiency in Japanese or Korean is not a prerequisite for any of the summer programs.

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

Signature of applicant _____ Date _____

POTENTIAL HOST INSTITUTIONS

2

(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.)

Student Name: _____

STATEMENT OF PURPOSE

Student Name: _____

DESCRIPTION OF CURRENT RESEARCH

Student Name: _____

RECOMMENDATION FORM

5

Page 1

NAME OF APPLICANT: _____

REFEREE:

Name: _____

Department: _____

Institution: _____

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

2. In specific terms, explain how the Summer Program will benefit the applicant in his/her research interests. What unique approaches, opportunities, or skills will the applicant obtain in Japan or Korea that are unavailable in the United States?

RECOMMENDATION FORM

5

Page 2

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.

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

SIGNATURE: _____ DATE _____

(Please send this recommendation form to: Japan and Korea Program, Rm. 935, Division of International Programs, National Science Foundation, 4201 Wilson Blvd., Arlington, VA, 22230. **Do not return to applicant.** Recommendations must be post-marked by December 1. Failure to return this form in a timely fashion will jeopardize the application.)



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