POSITIONS OPEN

ASSISTANT PROFESSOR, DERMATOLOGY

The College of Physicians and Surgeons of Columbia University, Department of Dermatology, is currently seeking a full-time, non-tenured faculty member. The candidate must have an M.D. degree and a strong research background in photobiology and molecular biology. The successful applicant will be responsible for developing new programs in the area of human photophysics and in the molecular mechanisms of these disorders and the cutaneous photosensitization associated with them. The position also involves patient care and teaching. Qualification: application must be board certified or board eligible in Dermatology. Interested applicants are invited to mail curriculum vitae with a cover letter to: Dr. David D. Bilky, M.D., Carl Truman Nelson Professor and Chairman, Department of Dermatology, Columbia Presbyterian Medical Center, 612 West 168th Street, New York, NY 10032.

Columbia University is an Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND CHAIRPERSON/HEd., DEPARTMENT OF ENTOUMOLOGY

Applications and nominations are invited to provide leadership for overall administration of teaching, research, extension and public service activities that comprise the mission of a Land Grant University. Individual must interact effectively with other administrative units, government agencies, agricultural industries, public interest groups and alumni. An earned doctorate and national/international reputation in entomology or related field, with superior GTP and administrative ability, and interest in promoting the diversity of activities for which the department is responsible are required. Applications received by April 29, 1994, are reviewed at that time. The satisfactory pool of candidates is identified. Candidates initially should provide a statement of interest and curriculum vitae documenting relevant qualifications and including a current vita. Names of references will be requested following initial, confidential screening. Send applications, nominations or inquiries to: Dr. Stanley C. Lebbin, Chair, Department of Botany and Plant Pathology, Cordell Hall, Oregon State University, Corvallis, OR 97331-2902; Telephone: 503-737-3573; Fax: 503-737-3573; E-mail: coxleys@bcc.orst.edu. Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.

The UIC Eye Center is seeking candidates for the position of RESEARCH ASSISTANT PROFESSOR, non-tenured, for research into the molecular mechanisms mediating membrane transport, gap-junctional communication, and transmitter-gated channels in the vertebrate retina. Candidates must have a Ph.D. in the biological sciences, minimum of two years of post-doctoral research in a related area, and a strong background in voltage-clamp technology and oocyte expression systems. Salary commensurate with training and experience. Starting date 3 years after April 15, 1994. Forward letters of application and curriculum vitae to: Ms. Jovita Banks (#008) UIC Eye Center (m/c 648) 1855 West Taylor Chicago, IL 60612

To receive fullest consideration apply by April 11, 1994. The UIC is an Affirmative Action/Equal Opportunity Employer.

PHARMACOLOGY FACULTY POSITIONS

Applications are invited for two (2) faculty positions at the ASSISTANT and/or ASSOCIATE PROFESSOR levels in the areas of Molecular Pharmacology and of Toxicology in the Department of Pharmacology, School of Medicine, Universidad Central del Caribe. Applicants must have a Ph.D. and/or M.D. degree. In addition to carrying out an established program in their areas of expertise, the candidates will be expected to participate in the teaching programs of the department, which include medical and graduate student instruction. Interested applicants should send curriculum vitae and names of three references to: J. Santos-Martinez, Ph.D., Department of Pharmacology, School of Medicine, Universidad Central del Caribe, School of Medicine, Call Box 60-327, Bayamon, PR 00960-6032. Universidad Central del Caribe is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MOLECULAR BIOLOGY (please plant emphasis), tenure-track ASSISTANT PROFESSOR. Teach 2 courses major, general education course, co-teach introductory majors course. Develop research undergraduates. Link molecular to macro levels. Send letter, résumé, transcripts, sample of professional work, teaching evaluations (if available), Long suited to White, Linfield College, McMinnville, OR 97128-6894. Screening begins April 6, 1994. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, Case Western Reserve University, Department of Medicine. Applications are invited for research position in the Department of Medicine. The successful applicant may be eligible for a secondary appointment in the appropriate basic science department. Candidates must have the Ph.D. degree and 2 to 4 years of postdoctoral research experience. Relevant research experience must include: molecular biology, cell biology and cellular biochemistry. Specific research projects that are ongoing in the Division of Nephrology are: (1) transcriptional and posttranslational control of prostaglandin synthesis; (2) posttranslational regulation of phosphotyrosine phosphatase (PTPase); and (3) mechanism of endotelin synthesis; (4) postreceptor signaling through mitogen-activated protein kinases. Interested applicants should send curriculum vitae, a summary of their research interests and experience, and the names of three references to: Michael J. Dunm, M.D., Professor of Medicine and Physiology and Biophysics, Director, Division of Nephrology, 111 East 95th Street, OH 44106. The University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, University of California, San Diego, Department of Pharmacology and Toxicology. The successful candidates are expected to contribute to the research and teaching activities of the department. The University is an Equal Opportunity/Affirmative Action Employer.

PHARMACOLOGY ASSISTANT OR ASSOCIATE PROFESSOR OF BIOLOGY

Juniata College announces continuing position in Physiology. Begin: fall 1994. Experience in undergraduate instruction, strong interest in teaching and advising (particularly advising students interested in pre-health professions), active commitment to undergraduate research, and understanding of role of natural sciences in a liberal arts curriculum. Duties include teaching, research, and service activities. Send letter of application, current curricular vitae, statement of teaching and research interests (list any major equipment needs), and three letters of reference to: Dr. Karen Waddie, Vice President and Dean of Academic Affairs, Juniata College, Hunting- don, PA 16622. Review of applications will continue until position is filled. Juniata encourages applications from women and minority candidates. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSORS—BIOLOGY (2). Two tenure-track positions to be filled September 1994. Ph.D. required. Field-oriented and teaching experience preferred. Responsibilities include: some general biology (courses combinations) Conservation Biology, Ecology, General Biology, Genetics, Invertebrate Zoology, Molecular Biology, Parasitology, Systematics, and Vertebrate Zoology. Supervision of 67-acre research area. Teaching load is 5 laboratory courses per year. Successful applicants are expected to develop an active research program involving undergraduate students. Carroll College is a private, four-year liberal arts college in suburban Milwaukee area. Applicants should submit curriculum vitae, transcripts, statement of teaching and research interests, and three letters to: Dr. Gary Stevens, Provost, Carroll College, 100 North East Avenue, Waukesha, WI 53186. Review of the applications will begin April 1, 1994. Women and members of minority groups are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND CHAIR Department of Cell Biology and Neurosciences The University of Texas Southwestern Medical Center at Dallas announces a search for a chairperson to lead the Department of Cell Biology and Neurosciences. Candidates must have a substantial record of achievement, active grant support, teaching ability and administrative skills. Ph.D. or M.D. required. Interested parties should send curriculum vitae and names of three references to: Daniel W. Foltz, Chair, Internal Medicine, UT Southwestern, 5323 Harry Hines Boulevard, Dal- las, TX 75235-9030. The University of Texas Southwestern Medical Center is an Equal Opportunity Employer.
Department of Energy
Human Genome Program Announcement

Program Notice 94-13: Human Genome Program—Ethical, Legal, and Social Implications

ACTION: Notice inviting grant applications

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications in support of the Ethical, Legal, and Social Implications (ELSI) subprogram of the Human Genome Program (HGP). The HGP is a coordinated, multidisciplinary, goal-oriented, research effort aimed at improving technologies that will lead to a detailed understanding of the human genome at the molecular level. This particular research notice encompasses research grants that address ethical, legal, and social issues that may arise from the use of information and knowledge resulting from the HGP. The grants especially encourage the submission of applications to conduct multidisciplinary empirical research on privacy issues from the creation, use, maintenance, and disclosure of genetic information. This may include (but is not limited to) issues of ownership and control of genetic information and the protection of the privacy of genetic information in various settings including the workplace. Applicants should demonstrate knowledge of the relevant literature, and should include detailed plans for the gathering and analysis of factual information and the exploration of issues associated with the ethical, legal, and social implications of the knowledge gained from the HGP. All applications should include, where appropriate, detailed discussion of human subjects protection issues; e.g., storage, of manipulation of, and access to data. Where survey techniques are proposed, provisions to ensure the inclusion of women, minorities, and potentially disabled individuals must be described, unless specific exclusions are scientifically necessary and justified in detail. All proposed research applications should address the issue of efficient dissemination of results to the widest appropriate audience.

The DOE is also soliciting applications for the preparation and dissemination of educational materials in any appropriate medium that will enhance public understanding of both the scientific aspects and the ethical, legal, and social aspects of the HGP. In addition, the DOE is encouraging applications for the support of conferences focusing on specific issues or areas of concern related to the ethical, legal, and social implications of the HGP. Educational and conference applications should also demonstrate awareness of the relevant literature, and include details of planned papers or presentations. The associated dean is the principal advocate for research within the administration and chief institutional spokesperson for research issues. Responsibilities include development of strategies to capitalize on research opportunities in public and private sectors, providing liaison activities to federal agencies and new/existing sources of research funding; and direction, performance and quality of all programmatic activities of The Office of Research Development which include the execution of research grants and contracts and assurance that research activities comply with institutional and governmental regulations.

Please send curriculum vitae to attention of:
Dr. Curt F. Dufberg, Chairman, search committee
910-716-2498
Department of Public Health Sciences
The Bowman Gray School of Medicine
Medical Center Boulevard
Winston-Salem, NC 27107

WAKE FOREST

Temple University School of Medicine
Department of Microbiology and Immunology

POSTDOCTORAL PROJECT INVESTIGATORS, OR RESEARCH ASSISTANT PROFESSIONAL positions are available to work on: (1) The molecular cloning and identification of tumor-specific antigens in human malignancies; (2) development and characterization of human T-cell clones; (3) molecular characterization of T-cell antigen receptors involved in anti-tumor immunity or autoimmune diseases. Experience in molecular cloning and expression systems, and characterization of human T-cell clones is needed. Position supported by NIH research grants. Interested candidates should send a curriculum vitae, bibliography, and complete list of addresses to three references to: Chris D. Platoucas, Ph.D., Professor and Chairman, Department of Microbiology and Immunology, Temple University School of Medicine, 140 N. Broad Street, Philadelphia, PA 19140.

Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.
Animal Health Product Development
Join the Growth. Join the Success.

Pfizer, a Fortune 100 company, one of the largest pharmaceutical companies in the world and a multi-billion dollar industry leader, can offer you a world of challenge, opportunity and achievement where you can make a significant contribution to the research and development of exciting new products to be introduced in the coming decade...and the new century.

Pfizer's Central Research Laboratories in Groton, Connecticut are the company's primary U.S. research facilities and represent one of only a handful of R&D organizations with a budget over $1 billion to support continued advances in science. Pfizer has one of the world's largest Animal Health businesses and is committed to innovative research and to the development of new products for both livestock and companion animals. To accomplish that goal we are actively recruiting the following positions in our Animal Health Product Development Group.

**Senior Clinical Research Investigator**
The successful candidate will contribute to the design of testing plans and protocols for laboratory and field trial programs and will be responsible for the identification of collaborators and the management of studies conducted at field sites, contract laboratories and university departments throughout North America. An important role will be ensuring such studies are conducted to high quality standards and are in compliance with corporate procedures and regulatory requirements. Travel will be involved. Involvement continues with the analysis, interpretation and reporting of study data and the progression of candidates through to regulatory approval.

The position requires a DVM and/or PhD with five years experience in a clinically oriented veterinary or scientific discipline relevant to parasitic or infectious diseases of animals. Previous experience in the clinical aspects of drug development within the Animal Health pharmaceutical industry is desirable.

**Clinical Research Assistant**
In this role you will be responsible for preparing experimental protocols, liaising with collaborators and acting as the Pfizer monitor for clinical studies conducted at contract; interacting with the biometrics group to ensure timely analysis of data and preparing experimental reports to assure all data and experiment files meet departmental quality standards.

Requirements include a BS/BA or MS/MA with experience in a relevant discipline and industrial research experience. Knowledge of the animal health industry would be an advantage. Previous experience as a Monitor for clinical efficacy and safety studies in an environment of good compliance is desirable.

**Senior Clinical Systems Analyst**
The successful candidate will be responsible for the development and programming of data management systems (using SAS) for the entry, storage and analysis of clinical study data; liaising with project team members and biometricians; assisting with the production of data listings and statistical reports in formats suitable for submission in regulatory documents; providing programming assistance to biometricians; and providing maintenance and user support for existing data systems.

This position requires a BS/BA or MS/MA in a relevant discipline with extensive SAS (version 6) programming experience. Previous experience in handling clinical data and statistical knowledge is desirable.

**Assistant Clinical Systems Analyst**
You will be responsible for assisting with the programming and maintenance of SAS data management systems for storage and analysis of clinical data; providing programming support for the generation of data entry screens; assisting with the production of data listings and statistical reports in formats suitable for submission in regulatory documents; and providing general technical support (VAX, PC and data systems).

You should have a BS/BA or MS/MA in a relevant discipline with SAS (version 6) programming experience. Previous experience in handling clinical data is desirable.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacations, educational assistance, savings and investment plan, pension plan, relocation assistance and more. Our R&D facility, located in a south-eastern Connecticut shore community, gives access to the well known academic and cultural centers of the Northeast, and offers the attractions of a New England lifestyle.

To learn how you can be part of the future of Pfizer, send your resume to: Charles P. Norris, Assistant Manager, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

Pfizer

Central Research
Bringing science to life.
NEUROBIOLOGIST

The Department of Biology at Utah State University (USU) invites applications for a tenure-track faculty position at the rank of ASSISTANT PROFESSOR. The appointed position is expected to direct an externally funded research program in NEUROBIOLOGY combining physiological approaches with molecular, cellular, or organizational aspects of the nervous system. Applicants must be interested in an area that complements the research interests of the faculty. The position is available for a July 1, 1995, start date.

University of Geneva
DEPARTMENT OF MOLECULAR BIOLOGY
TWO PROFESSORS OF MOLECULAR BIOLOGY

Full-time appointment at the level of full professor or associate professor, starting date: 1 January 1995.

The successful candidates are expected to teach at graduate and undergraduate levels and to lead a strong research program in molecular genetics. A strong background in genetics is desirable. Research on ribosomes, DNA replication, recombination and translation could also be conducted in French if required but a period of adjustment can be granted.

Applications should be sent by May 31, 1994, to: Secretary, University of Geneva, 40 quai Ernest-Ansermet, CH-1211 Geneva 4, Switzerland, where inquiries can be made.

Qualified women are encouraged to apply.

DIRECTOR, SHOALS MARINE LABORATORY

The Division of Biological Sciences at Cornell University invites applications for the position of Director of the Shoals Marine Laboratory (SML). SML, a shared venture with the University of New Hampshire, is primarily a teaching program located on Appledore Island in the Gulf of Maine. The appointment will be for any level, including full Professor with tenure, in an appropriate academic unit on Cornell’s main campus. The Director should be a respected scientist with broad marine science experience and a strong commitment to undergraduate education. A candidate is sought with a notable record of academic achievement and administrative experience, and a demonstrated potential to provide effective leadership and carry on an active research program. The Director will be responsible for administering academic programs, will serve as liaison with the University of New Hampshire, and will be involved with fundraising.

Qualified candidates should submit curriculum vitae and a statement of research, teaching, and administrative interests. In addition, three letters of reference should be sent directly to: Dr. Peter J. Bruns, Director, Division of Biological Sciences, 169 Biotechnology Building, Cornell University, Ithaca, New York 14853. E-mail: par2200@cornell.edu; FAX: (607) 255-2428. Screening of completed applications will begin April 15, 1994. Starting date is negotiable.

Cornell University is an Affirmative Action/Equal Opportunity Employer.

BOTANIST/MICROBIOLOGIST: Siena Heights College, to begin August 1994. Candidates should be prepared to teach in the fields of Botany, Cell Biology, Genetics, Microbiology and general education courses in biology. SuperVision of senior research is expected. Ph.D. preferred, liberal arts experience as faculty or student desirable. Application should include curriculum vitae, a statement of teaching philosophy, and three letters of recommendation. Deadline: April 22, 1994. To: Dr. Carl Kaster, Siena Heights College, 4247 East Siena Heights Drive, Adrian, MI 49221. Women/minorities are encouraged to apply.

EDITOR-IN-CHIEF, WORLD RESOURCES REPORT.

The World Resources Institute (WRI), an independent research and policy institute, seeks applicants for Editor-in-Chief for its World Resources Report. Candidates should have a minimum of 10 years' relevant experience in research, publishing, or journalism, particularly in environmental, development and resource issues, and demonstrated ability to write and communicate effectively. Send curriculum vitae to: Robert W. Engelman, WRI, 1770 New York Avenue, NW, Washington, DC 20006. Equal Opportunity Employer. Women and minorities encouraged to apply.

UNIVERSITY OF GENEVA

DIRECTOR OF RESEARCH, Sinai Hospital, Detroit, Michigan. Sinai is a 603-bed teaching hospital with ten Graduate Medical Education programs, over 50 full-time faculty and an annual research budget of over $2.0 million. Faculty appointments will be made in both basic research and animal care facility. M.D. or Ph.D. in a medical basic science discipline, research administration or grants management experience. Experience in clinical research, endocrinology, epidemiology, immunology or genetics preferred. Send letter of inquiry and curriculum vitae to: Robert E. Reed, M.D., Executive Director, Sinai Hospital of Detroit, 4567 West Outer Drive, Detroit, MI 48235. An Equal Opportunity Employer.

RESEARCH DIRECTOR—The Animal and Plant Health Inspection Service (APHIS) seeks a Director for the U.S. Department of Agriculture’s Denver Wildlife Research Center. The Center applies scientific expertise to the development of practical methods to resolve wildlife damage problems and to maintain the quality of environments shared with wildlife. The Center will relocate to a site-of-choice for the appropriate facilities being constructed at a Colorado State in Fort Collins. Ph.D.-level position. Salary range: $59,198 to $90,520. For copy of vacancy announcement, write APHIS, 2500 Arctic Ave., Suite 440, Anchorage, AK 99501, and reference Air 1994-0002. Applications must be postmarked by April 29, 1994. An Equal Opportunity Employer.

MOLECULAR NEUROBIOLOGIST—The Department of Psychiatry of Indiana University School of Medicine has FACULTY POSITION open in Molecular Neurobiology at the Institute of Psychiatric Research. Experience in the application of molecular genetic techniques to neurobiological problems is desirable. The successful candidate would be eligible for a tenure-track appointment and should have a Ph.D. in Neurobiology and a possible joint appointment in an appropriate basic science department. Send curriculum vitae, application letter and three letters of reference to: Dr. Bertram L. Nurnberger, Jr., M.D., Ph.D., Professor of Psychiatry and Neurology, Director, Institute of Psychiatric Research, 5200 West 168th Street, Suite 100, Chicago, IL 60628. Telephone: (312) 432-2200. Applications will be considered until the position is filled. Indiana University is an Equal Employment Opportunity/Affirmative Action Employer.

IMMUNOLOGIST—A 9- or 12-month tenure-track research/teaching position. Develop research program in immunology. Ph.D. in immunology required. Teach immunology/microbiology for graduate/undergraduate. Submit curriculum vitae, statement of research interests, and names and addresses of three references.铣 eine to: Chair, Immunology Search Committee, Department of Microbiology, Oregon State University, Corvallis, OR 97331. Closing date: Mid-May, 1994. Preference given to women. Oregon State is an Equal Opportunity Affirmative Action/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study regulation of gene expression in mammalian skeletal muscle with emphasis on the neuromuscular synapse. Opportunity to collaborate with other investigators located within the neuromuscular research group. Ph.D. in molecular biology or related field required. Send curriculum vitae and names of two referees to: Bernard J. Jansen, Department of Physiology, Faculty of Medicine, University of Ottawa, 451 Smyth Road, Ottawa, Ontario, Canada K1H 8M5. FAX: (613) 787-6718.
GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF MATERIALS AND GLOBAL ENVIRONMENT

The New Energy and Industrial Technology Development Organization (NEDO), a Japanese governmental implementing agency supervised by the Ministry of International Trade and Industry (MITI) of Japan, has been carrying out an International Joint Research Program since 1988. This program aims to contribute to the enhancement of the international level of industrial technology as well as to the advancement of international exchange by supporting international joint research teams which conduct superior research. In addition to supporting international joint research teams which conduct original and innovative basic research in the materials area, international joint research teams which conduct research in the global environment area will be provided with grants in FY 1994. The program in the global environment area will be conducted jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Research grants will be provide to "International Joint Research Teams" which fulfill the following main requirements:
1. Each team, in principle, must be composed of four or more researchers;
2. Each team must consist of researchers of two or more different nationalities;
3. The research organizations where the team members' major activities take place must be located in two or more countries.
4. Each team must appoint a research coordinator and an accounting coordinator. The accounting coordinator must be responsible for accounting matters and function as the liaison between the team and NEDO. The accounting coordinator's organization and research site must be located in Japan, and he/she must be able to communicate with NEDO in Japanese about all accounting matters. The research coordinator can also hold the post of accounting coordinator.

FY 1994's program is shown below:

<table>
<thead>
<tr>
<th>Research Area</th>
<th>Field of Research</th>
<th>Amount of Each Grant</th>
<th>Number of Themes to be Adopted</th>
<th>Recipients of Applications</th>
</tr>
</thead>
</table>
| Materials           | 1) Basic research concerning the investigation and elucidation of materials  
                       2. Basic research concerning the practical use of materials | about 30,000,000 yen in FY 1994 | 6 themes                      | NEDO (Note a.)            |
| Global Environment  | Practical research concerning the production, generation and use of oil-alternative energy which contributes to the conservation and improvement of the global environment | about 30,000,000 yen in FY 1994 | 1 theme                      | RITE (Note b.)            |

*International joint research teams which conduct research in the energy area and the global environment area (basic research) will not be provided with grants in FY 1994.

(Recipients of applications)

Note a. Materials area
International Joint Research Division,  
Industrial Technology Department  
New Energy and Industrial Technology Development Organization (NEDO)  
Address: PO Box 1151, 21F, Sunshine 80 Bldg.  
3-1-1 Higashi-Ikebukuro, Toshima-ku,  
Tokyo, 170 Japan  
Phone No.: 81-3-3987-9357  
Telefax No.: 81-3-3981-1536

Note b. Global environment area
Research Proposals Reception Section,  
Research Planning Department  
Research Institute of Innovative Technology for the Earth (RITE)  
Address: 9-2 Kizugawadai Kizu-cho Soraku-gun,  
Kyoto, 619-02 Japan  
Phone No.: 81-7747-5-2302  
Telefax No.: 81-7747-5-2314

Please be informed that the amount of each grant and the number of themes to be adopted may be changed, and that this grant program is subject to government budget approval. A research team may submit an application a maximum of two times for a grant on the same subject.

The application period is from March 10, 1994 to June 10, 1994. No applications will be accepted later than June 10th.

ATTENTION: If there are some discrepancies in a submitted application, for example, it does not follow the Application Guidebook or the research contents are different from the proposed research area, it will be considered invalid.
STA FELLOWSHIP PROGRAM

Postdoctoral Fellowships in Japanese National Laboratories

Introduction
The Science and Technology Agency (STA), an administrative organ of the Government of Japan, established the STA Fellowship Program in 1988 in order to offer opportunities for promising young foreign researchers in the fields of science and technology to conduct research at Japan's national laboratories and public research corporations (excluding universities and university-affiliated institutes). The Program is also a response to calls from the international community of science and technology for greater international cooperation through the exchange of promising researchers. Since Oct. 1, 1989, the Program has been managed by the Research Development Corporation of Japan (JRDC), a statutory organization under the supervision of STA, in cooperation with the Japan International Science and Technology Exchange Center (JISTEC). JRDC also has the strong support and cooperation of the Responsible Organizations listed in Table 1.

Fellowship Qualifications
The fellowships are open to young PhD holders of under 35 in principle, from universities, research councils, government research laboratories and industry. Any science or engineering discipline will be considered except military R & D. Applicants should be of sufficient good health to pursue research activities in Japan. Have sufficient language ability to pursue research activities in Japan, Japanese language ability is preferable, but English is sufficient in most cases. With the agreement of the host research institute, other languages may suffice.

Tenure and Field of Research
The tenure will be from 6 months to 2 years, to be decided upon through negotiation between the candidate and the host institute. The field of research will also be decided upon through negotiation between the candidate and the host institute, the results of research activities produced during the tenure will be subject to the regulations of the host institute. Research field include: Mathematics; Physics; Geology; Electricity; Electrons; Information Engineering; Mechanics; Engineering Works; Architecture; Erosion Control; Landscaping; Chemistry; Metals; Resources Engineering; Medical Science; Pharmaceuticals; Agricultural Technology; Farming; Forestry; Fisheries; others in the Natural Science.

FELLOWSHIP AWARDS
Fellowships include round-trip air tickets (economy class; not available for dependents) and the following allowances:
1) Living allowance: 270,000 a month
2) Family allowance: 50,000 a month
3) Housing: Apartments will normally be provided to awardees. The apartment floor area is 40m² for awardees unaccompanied by their family and 60m² for awardees to stay with their family in other than metropolitan areas such as Tokyo. If an awardee prefers to use a larger apartment because of the family size or otherwise 106,000 maximum per month may be paid as housing allowance; any shortfall is to be borne by the awardee.
4) An initial international settling-in allowance: 200,000
5) An annual allowance of up to 115,000 for travel within Japan related to research activities.
6) Medical insurance (N.B. not available for dependents)

Assistance for Fellows
If they wish, Fellows may take advantage of the following assistance:
1) Free Japanese language courses for Fellows whose host research institutes are in Tsukuba area. Fellows whose institutes are located elsewhere are entitled to reimbursement of reasonable amounts for language tuition at a private school. (N.B. not available for dependents)
2) Since most apartments in Japan are unfurnished, basic furniture and electric appliances will be provided free of charge to Fellows;
3) Counseling on problems relating to such aspects of daily life as children's schooling, medical care and shopping, is available for Fellows living in Tsukuba area.

APPLICATION PROCEDURE FOR STA FELLOWSHIP (Fig 1)
 Applicants possessing the nationality or citizenship or permanent resident status of a country listed in Table 1 should:
1) Contact the Responsible Organization in their country to obtain an application form and information about the host research institutes.
2) Communicate with host research institutes of interest to ascertain their suitability for the applicant's area of specialization.
3) After agreeing with the prospective host institute on the subject of research, the length of tenure and starting date for the Fellowship, the applicant should obtain from the institute a formal letter of acceptance expressing its willingness to serve as a host.
4) Submit the completed application form and the letter of acceptance to the Responsible Organization concerned. The Responsible Organization will then screen applicants, and submit its recommendations for Fellowship candidates to JRDC through JISTEC, accompanied by a complete dossier on the candidates.
5) JRDC will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC. The Responsible Organization and the host research institute concerned will also be informed in this respect.
**Fig. 1** Procedural Flow from Contact to Receipt of Award

![Procedural Flow from Contact to Receipt of Award](image)

**Table 1 RESPONSIBLE ORGANIZATIONS**

<table>
<thead>
<tr>
<th>Country</th>
<th>Contact</th>
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<tbody>
<tr>
<td>AUSTRALIA</td>
<td>THE AUSTRALIAN ACADEMY OF SCIENCE</td>
</tr>
<tr>
<td></td>
<td>Ms. Bonnie Baud            International Exchange Officer</td>
</tr>
<tr>
<td></td>
<td>GPO Box 783, Canberra ACT 2601</td>
</tr>
<tr>
<td></td>
<td>Tel: 61-6-247-3966 Fax: 61-6-257-4620</td>
</tr>
<tr>
<td>AUSTRIA</td>
<td>FEDERAL MINISTRY FOR SCIENCE AND RESEARCH</td>
</tr>
<tr>
<td></td>
<td>Ms. Susanna Peterka         Administrative Officer, International Affairs</td>
</tr>
<tr>
<td></td>
<td>Minoritenplatz 5, A 1014 Vienna</td>
</tr>
<tr>
<td></td>
<td>Tel: 43-222-531-20-6794 Fax: 43-222-531-20-6205</td>
</tr>
<tr>
<td>CANADA</td>
<td>NATURAL SCIENCE AND ENGINEERING RESEARCH COUNCIL</td>
</tr>
<tr>
<td></td>
<td>Ms. Eileen P. Garvey         Program Officer, Japan Programs</td>
</tr>
<tr>
<td></td>
<td>200 Kent Street, Ottawa, ON, K1A 1HS</td>
</tr>
<tr>
<td></td>
<td>Tel: 1-613-947-0190 Fax: 1-613-992-5337</td>
</tr>
<tr>
<td>GERMANY</td>
<td>ALEXANDER VON HUMBOLDT-STIFTUNG</td>
</tr>
<tr>
<td></td>
<td>Dr. Michal Meier            Department Sponsorship Abroad</td>
</tr>
<tr>
<td></td>
<td>Jean-Paul-Str. 12, D 5300 Bonn 2</td>
</tr>
<tr>
<td></td>
<td>Tel: 49-228-833-101 Fax: 49-228-833-199</td>
</tr>
<tr>
<td>FINLAND</td>
<td>THE ACADEMY OF FINLAND</td>
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<tr>
<td></td>
<td>Ms. Ritva Helle             International Affairs</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 57, SF-00551 Helsinki</td>
</tr>
<tr>
<td></td>
<td>Tel: 358-0-7748-316 Fax: 358-0-7748-379</td>
</tr>
<tr>
<td>FRANCE</td>
<td>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE</td>
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<td>Ms. Françoise Aubjueault</td>
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<td>Chief of Asia Division, Mission of International Relations</td>
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<td>3-5 rue Michel-Ange, 75781 Paris Cedex 16</td>
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<td>Tel: 33-1-44-96-46-91 Fax: 33-1-44-96-49-10</td>
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<td>Dr. Maria Enrica Danubio, Head of Bilateral Activities</td>
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<td>International Relation Office</td>
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<td>Lungotevere Thaon di Revel 76, 00100 Roma</td>
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<td>NETHERLANDS</td>
<td>STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN (STW)</td>
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<td>Dr. C. A. M. Mombors          Program Officer</td>
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<td>Postbus 3021, 3502 GA Utrecht</td>
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<td>Van Vollenhovenlaan 661, Utrecht</td>
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<td>Tel: 31-30-923275 Fax: 31-30-961536</td>
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<td>AUSTRALIA</td>
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<td>Ms. Lisa Goodman            International Science Officer</td>
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<td>P.O. Box 5336, Wellington</td>
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<td>Tel: 64-4-472-6400 Fax: 64-4-471-1284</td>
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<td>NORWAY</td>
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<td>Ms. Else Boon               Advisor</td>
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<td>P.O. Box 2700 ST. Hanshaugen 0131 Oslo</td>
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<td>Tel: 47-2-2037000 Fax: 47-2-2037001</td>
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<td>SWITZERLAND</td>
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<td>Dr. Benno G. Frey           Head of the Fellowship Section</td>
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<td>Wildhainweg 20, CH-3012, Bern</td>
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<td>Tel: 41-31-27-22-22 Fax: 41-31-23-30-09</td>
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<td>UNITED KINGDOM</td>
<td>THE ROYAL SOCIETY</td>
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<td>Ms. Vida Cody               Head of Japan Exchanges</td>
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<td>6 Carlton House Terrace, London SW1Y 5AG</td>
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<td>Tel: 44-71-839-5561 Fax: 44-71-930-2170</td>
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<td>UNITED STATES</td>
<td>NATIONAL SCIENCE FOUNDATION</td>
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<td>Ms. Janice M. Cassidy</td>
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<td>Japan Programs, Room 935</td>
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<td>Division of International Programs</td>
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<td>4201 Wilson Blvd. Arlington, VA 22230</td>
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<td>Tel: 1-703-306-1701 Fax: 1-703-306-0476 or 0477</td>
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<td>NATIONAL INSTITUTES OF HEALTH</td>
<td>Dr. David A. Wolff            Chief, International Research Awards Branch</td>
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<td>Fogarty International Center</td>
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<td>Bldg. 31, Rm. B2C39 Bethesda, Maryland 20892</td>
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<td>Tel: 1-301-496-1653 Fax: 1-301-402-0779</td>
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<td>EUROPEAN COMMUNITIES</td>
<td>COMMISSION OF THE EUROPEAN COMMUNITIES</td>
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<td>Mr. Mario Merla             Directorate-General for Science, Research and Development</td>
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<td>DG XII-G-3                 200 Rue de la Loi, 1049 Brussels, Belgium</td>
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<td>Tel: 32-2-296-39-90 Fax: 32-2-296-33-08</td>
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Further information regarding the STA Fellowship and host institute is available from the responsible organizations, or JRDC. (See below)
POSTDOCTORAL POSITION

An NIH-supported postdoctoral position is available at the Weizmann Institute of Science in Israel to study the structural and functional properties of human multidrug resistance proteins. The project involves the use of a multidisciplinary approach, including biochemical, biophysical, and molecular biological techniques, to elucidate the mechanisms of action of these proteins. Applicants should have a strong background in molecular biology and enzymology. Experience in protein chemistry and enzymology is desirable. Submit curriculum vitae along with names and telephone numbers of three references to: Dr. Yehuda Gerbi, Department of Pharmaceutical and Protein Sciences, Hebrew University, Jerusalem, Israel. The Weizmann Institute of Science is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Opportunity/Employer

Opportunity

Multi-organ, enzybothology, is available at the University of California, San Francisco, 94143-0128. The University of California is an Equal Opportunity, Merit/Minority Employer.

POSTDOCTORAL POSITION

Areas

Opportunity

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NEW ZEALAND UNIVERSITY OF CANTERBURY LECTURER IN BIOCHEMISTRY

Applications are invited for a newly established Lectureship in the Department of Biochemistry. The appointee will be required to develop and contribute to undergraduate and postgraduate courses in Biochemistry, supervise graduate students, and engage actively in research.

Candidates should have training in biochemistry, a Ph.D. or equivalent qualification, and relevant teaching and research experience. The University offers B.Sc. (Hons) and postgraduate degrees in Biochemistry with courses being taught by staff of the Zoology, Plant and Microbial Sciences, and Chemistry Departments. Degrees in Cellular and Molecular Biology are also offered.

The Department of Zoology has active teaching and research programmes in animal behaviour, cell physiology, comparative animal physiology, eukaryotic molecular biology, genetics, limnology, marine biology, and neurobiology. The appointee will be encouraged to interact with one or more of these groups within the Department.

Enquiries may be made to the Head of Department, Professor M J Winterbottom, email: Zoo179@ecs.canterbury.ac.nz or FAX 64 3 364 2024.

The salary for Lecturers is on a scale from NZ$340,000 to NZ$500,000 per annum.

Applications close on 31 May 1994.

Further particulars and Conditions of Appointment may be obtained from the undersigned. Applications, quoting Position No. 2097, must be addressed to: A.W. Hayward, Registrar, University of Canterbury, Private Bag 4800, Christchurch, New Zealand.

The University has a policy of equality of opportunity in employment.

THE UNIVERSITY OF THE WEST INDIES St. Augustine, Trinidad

Applications are invited for the following vacancies:

School of Medical Sciences

SENIOR LECTURER/ LECTURER IN BIOCHEMISTRY/ MOLECULAR BIOLOGY

Applicants should have a first degree in Biochemistry, Molecular Biology or Microbiology and a PhD in Biochemistry or Molecular Biology with at least 2 years postdoctoral research experience in Biochemistry or Molecular Biology.

ANNUAL SALARY RANGES: Medical: Senior Lecturer TT$90,660 - TT$109,080; Lecturer TT$71,232 - TT$79,152 (B) - TT$89,052 plus Institutional Allowance ranging from 10% - 30% of basic salary depending on post. ANNUAL REGIONAL ALLOWANCES: Senior Lecturer TT$12,204; Lecturers above Bar TT$7,884; Lecturers below Bar TT$4,580. Passages, Pension, Housing Allowances, Study and Travel and Book Grants. Applications naming three referees and detailing qualifications and experience to the Registrar, University of the West Indies, St Augustine, Trinidad, as soon as possible. Further particulars sent to all applicants; these are also available from the Appointments (42566), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK (tel. 071 387 8572 ext. 206; fax 071 383 0368).

THE UNIVERSITY OF HONG KONG

Directorship of the Institute of Molecular Biology
(Ref. 93/94-30)

Applications are invited for the post of Director of the Institute of Molecular Biology, tenable from October 1, 1994. Since its establishment in 1990 until now, the Institute has been under the part-time Directorship of Professor Y. W. Kan, FRS. With the completion of the 900m$2 Institute building expected in September 1994, the University now seeks to recruit a full-time director.

Applicants must possess a doctorate degree, have a proven track record in biomedical research using molecular and cell biology techniques and have significant internationally recognized achievements in this area. The Director is expected to lead one research team as well as to manage and oversee the other research teams in the Institute. A successful record in research and in supervision of postgraduate students and management of large research groups would be preferable.

The University reserves the right not to fill the post or to fill the post by invitation or to make an appointment at a lower level.

Annual salary (superannuable) will be within the professorial range, of which the minimum is HK$836,580 and the average is HK$1,094,760 (approx: US$108,647 & US$134,384 respectively; US Dollar equivalents as at February 17, 1994), with starting salary depending on qualifications and experience. At current rates salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: (852) 559 2058; E-mail: APPTUNIT@HKUM1.HKU.HK). Closes 29 April 1994.

GENOME SEQUENCING RESEARCH at Cold Spring Harbor Laboratory

A postdoctoral position is available immediately to begin work on large-scale automated DNA sequencing. The overall goal of the program is to create an integrated system for the analysis of complex genomes using the fission yeast Schizosaccharomyces pombe as a model. The primary focus for this position will be on the development of new techniques and strategies to fully utilize the potential of automated DNA sequencers and the application of these to the sequencing of the S. pombe genome. Experience with fission yeast is not necessary. Experience with automated DNA sequencers or in genome related research is desirable, but not essential. Motivated candidates with a strong background in basic microbiology, molecular biology, genetics or biochemistry will be considered.

Cold Spring Harbor Laboratory offers an outstanding combination of intellectual environment, physical setting and state-of-the-art lab facilities. This research will be carried out in the McClintock Building, a newly remodeled (1993) laboratory. Interested candidates should send a curriculum vitae, and arrange to have three letters of reference sent, to: Dr. W. Richard McCombie, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, New York 11724.

Equal Opportunity Employer M/F
Sr. Scientist/Principal Scientist

Microbiology

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) is a worldwide research and development organization within Johnson & Johnson, the world’s largest and most comprehensive provider of health care products. The mission of RWJPRI is to discover and develop biotechnology-derived and traditional drugs which will drive the growth of the Johnson & Johnson companies...Cilag, Ortho-McNeil Pharmaceutical and Ortho Biotech.

We have an immediate opportunity within our Microbiology Research Department for a candidate with a PhD Microbiology and a strong background in biochemistry. Postdoctoral experience desired. At least 2 years of industrial experience is required that demonstrates your ability to develop in vivo models to discover novel anti-infective agents. Experience in in vitro evaluation of anti-infectives and clinical microbiology is desirable. The successful candidate will be responsible for planning, initiating and supervising studies in the evaluation of antimicrobial agents.

We offer a competitive salary and comprehensive benefits including medical/dental insurance, 401(k) plan, tuition reimbursement, and our LIVE FOR LIFE Wellness Program with on-site fitness center. Ours is a smoke-free workplace located midway between New York City and Philadelphia.

Please send resume including salary history to: Ms. P. Merski, HR Dept. 19, R.W. Johnson Pharmaceutical Research Institute, P.O. Box 300, Raritan, NJ 08869-0602.

An Equal Opportunity Employer, MF/D/V

The R.W. Johnson Pharmaceutical Research Institute
a Johnson & Johnson Company

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National Institute of Allergy and Infectious Diseases
National Institutes of Health

PROTEIN X-RAY CRYSTALLOGRAPHER

A protein crystallography laboratory is being established with intramural funding to conduct an original research program and to interact with other scientists within the NIH intramural program. PhD. or M.D. applicants should have a record of achievement in solving protein structures by X-ray crystallography. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three references to:

John E. Coligan, Ph.D.
Chief, Laboratory of Molecular Structure
NIH, Bldg. 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892

(301) 496-3213 phone
(301) 402-0284 fax

NIH is an Equal Opportunity Employer

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Temple University
School of Medicine

Faculty Positions, The Department of Microbiology and Immunology

The Department of Microbiology and Immunology invites applications for several tenure-track Faculty positions at the Assistant Professor, Associate Professor or Professor level, as part of the second phase of a major expansion. We are particularly interested in: (1) molecular immunologists or cellular immunologists employing contemporary molecular biology approaches; (2) investigators in molecular pathogenesis. The successful candidates will be expected to have significant research accomplishments, ability to establish and maintain a vigorous research program that will attract peer-reviewed funding and a commitment to excellence in educating graduate and medical students. Applicants at the Associate Professor or Professor level should demonstrate a consistent record of independent peer-reviewed funding and should have active competitive grants. Start up funds and newly renovated space are available for the appointed investigators.

The Department of Microbiology and Immunology is supported by extensive peer-reviewed funding and has a very strong graduate program providing students with advanced training in molecular microbiology and immunology. Interactions are encouraged with other basic and clinical departments and the Fels Institute for Cancer Research and the Thrombosis Center of Temple University School of Medicine.

Interested individuals should send a curriculum vitae, bibliography, a summary of research achievements and research plans and the names and addresses of four references to: Chris D. Platsoucas, Ph.D., Professor and Chairperson, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.

Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.
CLONTECH laboratories, Inc. is a growing company specializing in innovative products that support molecular biology research worldwide. We currently have the following career opportunities:

**SCIENTIST • Protein Biochemistry/Enzymology**

You will lead research in the area of novel proteins and enzymes. The successful candidate will have an innovative approach for the development of protein related products used in basic science research. Experience with enzyme assay development and expression, characterization, and purification of proteins is essential. This position requires a Ph.D. with 2-3 years of postdoctoral or industrial experience or an M.S. with 3-5 years related work experience. [Job # 3185-SPIE]

**PRODUCT MANAGERS**

Two positions in Product Management are available for B.S., M.S., or Ph.D. level candidates with previous product management experience in the life sciences research market. The successful candidates will provide strategic planning, develop & implement marketing activities and coordinate either enzymes or research related kits and reagents. [Job # 3185-PM]

**POST-DOCTORAL RESEARCH**

A position is available for a Ph.D. with research training in Molecular Biology and familiarity with human genome research. The successful candidate will be engaged in the NIH-supported Human Genome Project involving cloning & mapping of dissected chromosomes. [Job # 3185-PDR]

CLONTECH is located in the hub of Silicon Valley, close to Stanford University and more than 200 biotechnology companies. In addition to attractive salaries & benefits, we offer a stimulating work environment that encourages career growth. To apply, please send/FAX resume & cover letter to: CLONTECH Laboratories, Inc., Attn: HR Dept., Job # 4030 Fabian Way, Palo Alto, CA 94303. FAX (415) 424-1552.

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**BIOPROCESS APPLICATION SPECIALISTS**

Challenging opportunities are presently available for a number of technically proficient and extremely motivated people to work in our recently augmented Bioprocess Technology Applications Group.

The successful candidates will be involved in executing consultative work in downstream chromatographic purifications. They will also be involved in developing chromatography applications studies as well as educational courses run by Pharmacia Bioprocess Technology. These positions will be based at our New Jersey facility and will involve travel 20-30% of the time.

To be considered for the positions, the applicants must hold an M.S. degree in the life or health sciences (Ph.D. preferred), be computer literate in DOS, OS/2 and have at least 5 years experience in chromatography.

We are looking for hands-on bench oriented people who wish to use their experience in a challenging team oriented environment. Please forward your resume which must include salary history and requirements to: Human Resources, Dept. A.S., Pharmacia Biotech Inc., 800 Centennial Ave., Piscataway, NJ 08855-1327. We are an equal opportunity employer M/F/DV.

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**RESEARCHER** needed for co. located in central OH. Job duties include participating in research and development programs for hazardous waste treatment and pollution prevention. Perform computer modeling of transport in soils and hazardous water treatment. Conduct risk assessment, evaluation and develop methodologies for treatment and prevention of industrial waste in multiple environments. Involved in the analysis of water quality including BOD, COD, TSS, pH, Alkalinity, Turbidity, and Conductivity. Also involved in analysis/aplication of IoxTris, Sludge Volume Index Determination, Heavy Metals Extraction and Analysis, Coagulation Treatment Process, Activated Sludge Treatment Process, and Active Carbon Absorption Process. Will use the following equipment: electrophoretic mobility analyzer, spectrophotometer, TOC analyzer, Thermogravimetric Analyzer and High Heat/Pressure Sterilization. Will use EXCEL, LOTUS 1-2-3, WordPerfect, GRAPHIC package using PC or Mac w/Cad for engineering applications to design treatment devices, and statistical software package. Prepare reports, make presentations, and design treatment devices. Will travel to offsite locations for field studies. Applicant must have Master of Science degree in Engineering or Environmental Science. Applicant must have 2 yrs. exp. in job duties described above or 2 yrs. exp. which must include: 1 yr. experience with electrophoretic mobility analyzer and Thermogravimetric analyzer; 2 yrs. exp. w/spectrophotometer, TOC Analyzer and High Heat/Pressure Sterilization. Also min. of 2 courses in microbiology, 1 course each of organic chemistry, environmental chemistry, statistics, engineering mathematics, and grad. level mathematics; M.S. Thesis involving research combining mathematics, physics, and analytical surface chemistry. 2 yrs. exp. may be gained before, during, or after degree. Must present proof of legal authority to work indefinitely in the U.S. 40 hrs. per wk. 8 a.m. to 5 p.m., M-F $31,800/yr. All resumes should be submitted in duplicate (no calls) to: J. Davies, JOM 1333391, Ohio Bureau of Employment Services, PO Box 1618, Columbus, OH 43216.
POSTDOCTORAL POSITION. NIH-sponsored project to study the mechanism of glycogen phosphorylase (G-1P) regulation in Dictyostelium. The goals include (1) site-directed mutagenesis and deletion analysis of the gpl promoter, and (2) cloning and/or purification of transcription factors for the gpl promoter. Contact: Dr. Charles L. Rutledge, Room 2381 Drexel Hall, Virginia Tech University, Blacksburg, VA 24061; Telephone: (703) 231-8549; FAX: (703) 231-9307, or rutrherfo@vtmvim.cc.vt.edu.

POSTDOCTORAL POSITION available immediately for studies of membrane transport proteins. Of primary interest is the mitochondrial plasma membrane transport protein (PTP). The protein and the coupling of its H+ and P− transport pathways are being characterized with various chemical, biophysical, and mutational methods. Individuals with training in molecular biology and/or (membrane) protein biochemistry are invited to send curriculum vitae and names of three references to: Dr. Harman, Department of Biological Sciences, Marshall University, 300救护车/Medical School, 20 Stanford Street, Boston, MA 02114. Equal Opportunity Employer.

POSTDOCTORAL POSITION
CELL BIOLOGY
Applications are invited for a postdoctoral fellowship to study the role of proteins, particularly plasmalemmal actin, in keratinocyte migration and differentiation. Biochemical, molecular biological, and microscopic approaches will be utilized. Opportunities for interactions with other basic sciences in the university community are anticipated. Send complete curriculum vitae including description of research experience to: Pamela J. Jensen, Ph.D., Department of Dermatology, University of Pennsylvania, 242 CRB, Philadelphia, PA 19104-6142. University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION TO STUDY MOLECULAR BIOLOGY OF ANTICancer AGENTS. Available immediately for a novel DNA repair pathway for interstrand crossovers that operates in both bacterial and human cells and has potential implications for the mechanism of action of certain anticancer drugs. Molecular biological, genetic, and tissue culture techniques. Available immediately. Send curriculum vitae and reference letters to: Edward L. Loechler, Department of Biology, Institute University, 5 Cummington Street, Boston, MA 02215. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR IMMUNOLOGY to identify and characterize the cellular targets of a novel viral polypeptide that inhibits antigen presentation. Experience in molecular techniques required. Send curriculum vitae and list of references to: Dr. David Johnson, Room 420/15B, McMaster University, Hamilton, Ontario, Canada L8N 3S5.

POSTDOCTORAL RESEARCH TRAVEL FELLOWSHIPS Fellowships available to residents of North America with Ph.D., M.D., or comparable degree and less than one year of postdoctoral laboratory experience by application date for beginning training in basic biomedical research. The three-year award consists of a stipend of $25,000 per year for each of the three years, $2,000 per annum research allowance; travel to fellowship location; annual meeting. Application deadline August 15; fellowships activate following July. For application forms, write, telephone, or FAX: The Helen Hay Whitney Foundation, 450 East 63rd Street, New York, NY 10021; Telephone: 212-751-8228, or FAX: 212-688-6794.

RESEARCH ASSOCIATE—To conduct research in the area of membrane transport and membrane protein function. This involves Norwalks, membrane protein assays and transfection studies. Will supervise technicians, write research reports for publications. Salary: $30,000 plus per year. Requires Ph.D. and experience in molecular biology. Send curriculum vitae with names and telephone numbers of references to: Bruce S. Chertow, Marshall University School of Medicine, Department of Medicine, Huntington, WV 25701. Equal Opportunity Employer.

POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION available immediately to study the regulation of endothelial cell function by specific growth factors, phospholipase C and/or protein kinase C. Experience in molecular biology or biochemistry is required. The position involves independent research as well as collaborations. Send curriculum vitae, names of three references, and a statement of research interests to: Dr. Florence M. Hofman, Department of Pathology, University of Southern California Medical School, 2011 Zonal Avenue, Los Angeles, CA 90033.

SENIOR ASSOCIATE, WORLD RESOURCES INSTITUTE (WRI, NW, an independent policy research organization, seeks applicants for Director of its U.S. Sustainability Project: a two-year effort to develop a vision of, and policies to achieve, a more sustainable future for the United States. Candidates should have an advanced degree, or equivalent experience, in economics, public policy, technology policy, or similar fields; prerequisite skills in management of complex projects; and excellent written and oral communication skills. Send curriculum vitae to: Climate, Energy, and Pollution Program, World Resources Institute, 1709 New York Avenue, NW, Washington, DC 20006. Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE
An NSF-funded position is available to characterize genes, embryonic proteinases, particularly proteinase-3 (myeloid proteases) involved in the photoperiodic induction of flowering in higher plants, including Phytolacca and Arabidopsis. Send curriculum vitae, name of three references, and a statement of research interests to: Dr. Thomas L. O'Neill, Section of Plant Biology, Division of Biological Sciences, University of California, Davis, CA 95616.


RESEARCH AWARDS
The International Life Sciences Institute Research Foundation (ILSI Research Foundation) anticipates that funding will be provided for projects in the areas of TOXICOLOGY or ENVIRONMENTAL HEALTH (to include human nutrition), of up to $100,000 over 3 years, will be available in 1995. The purpose of the award is to encourage innovative, new investigators in basic biomedical sciences to apply modern knowledge and techniques to basic problems related to comparative toxicology or environmental influences on health, development and aging. The deadline for submitting preproposals (2 pages) is May 27, 1994. For further information, write: Award Administrator, ILSI Research Foundation, 1126 Sixteenth Street, N.W., Washington, DC 20036; FAX: 202/659-8654.

UAB Department of Psychiatry seeks BC/BE PSYCHIATRIC RESEARCH ASSOCIATE for part-time appointment in Division of Medical Services. Responsibilities include: liaison with Psychiatric Consultation Service and outpatient clinic for patients with concurrent mental and physical disorders. Applicants must have board certification and opportunities available, to teach medical students/residents and participate in clinical research. Balance of clinical versus academic duties will be based on skills and curriculum vitae, references to: John L. Shuster, M.D., Director, Division of Medical/Surgical Psychiatry, UAB at Birmingham, Alabama. Telephone: (205) 934-5151. Equal Opportunity Employer.
Listed below are a few of the outstanding opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Biochemistry and Biophysics of Signal Transduction**
Burton J. Litman, PhD

The visual transduction system is being used as a model for studying G protein coupled receptor pathways. The role of ethanol, general anesthetics, and phospholipid acyl chain polyunsaturation in modulating membrane structure and function is being explored using a novel combination of spectroscopic techniques and enzyme assay measurements. Applicants should have training in membrane biophysics/biochemistry and less than five years postdoctoral training. Laboratory of Membrane Biochemistry and Biophysics (OE-44), NIAAA, 12501 Washington Avenue, Rockville, MD 20852.

**Control of DNA Replication**
Dhruba K. Chattoraj, PhD

Mechanisms that regulate initiation of DNA replication are being studied in vivo and in vitro using plasmds of E. coli. Current projects include: plasmid replication during the cell cycle; quantitative analysis of DNA-protein and protein-protein interactions; protein-structure-function relations; and mechanisms of chaperone-mediated protein folding. Candidates should have less than five years postdoctoral experience and background in molecular genetics. Experience in protein purification is preferred. Laboratory of Biochemistry (OE-44), NCI, Building 37, Room 4D13.

**Developmental Genetics of the Mammalian Ovary**
Jurrien Dean, MD

A number of aspects of ovarian biology are being studied including: characterization of the genes involved in female sex determination; mechanisms of oocyte-specific gene expression; and structure-function relationships of zona pellucida proteins and sperm surface macromolecules in fertilization. Investigations utilize a wide range of molecular, cellular, and genetic approaches. Applicants must have less than five years postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-44), NIDDK, Building 6, Room B1-26.

**Human Genetics**
Dean Hamer, PhD

The role of genes in complex human characteristics and diseases is being studied by gene mapping and linkage analysis and a number of molecular approaches. The main focus is on the genetics of sexual orientation. Other areas of study include psychological traits, handedness, the progression of HIV infection, and breast cancer. Applicants must have less than five years post-doctoral experience. Laboratory of Biochemistry (OE-44), NCI, Building 37, Room 4A13.

**Human Genetics and Neurobiology**
Wen Liang Yan, MD, PhD

Human language and behavioral disorders such as developmental dyslexia and attention deficit and hyperactivity disorder (ADHD) are being studied with positional cloning approaches. Genetic markers and candidate genes will be tested in affected pedigrees to search for linkage or mutations. Other projects include the development of novel approaches for studying neural development and human polygenic traits. Applicants with training in biochemistry and molecular biology preferred. Laboratory of Molecular Genetics (OE-44), NIDCD, Building 36, Room 5B26.

**Molecular and Cell Biology**
Y. Peng Loh, PhD

The intracellular trafficking and processing of pro-hormones are being studied. Molecular and cell biological tools are used to identify the molecular signals and mechanisms for sorting and targeting pro-hormones to the regulated secretory pathway. Enzymes involved in pro-hormone processing are also being analyzed. Applicants must have training in recombinant DNA technology, protein biochemistry and cell culture techniques and less than five years postdoctoral experience. Laboratory of Developmental Neurobiology (OE-44), NICH, Building 49, Room 5A38.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference by Internet (tn3270.cu.nih.gov) or via modem (1,3014022221 or 1,8003582221). The settings for modem access are "7,Even,1". When connected to NIH, type in "rt100" at the connect message, "F5E" at initial, and "AJL2" at account.

The Postdoctoral Research Fellowship Opportunities catalog, which describes additional opportunities at the NIH, may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umich.edu") must be running on your computer and configured to point to "gopher.nih.gov" and port "70". Select Grants and Research Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
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Howard Ozer, Elliot Kieff, Susan Krown
Robert Ricciardi, Bernard Mach, Tak Mak
Robert Silverman, Sidney Pestka, Paula Pitha-Rowe
Howard Thomas, Kenneth Rock, Robert Schreiber
Brian Williams, George Stark, Moshe Talpaz
George Verfaillie, Jan Vilcek

Submission of abstracts for posters is encouraged. For further information regarding brochures, registration, and abstract forms, please contact:

Leslie Nies, Serono Symposia, USA
100 Longwater Circle, Norwell, MA 02061
Tel: 800-283-8088/Fax: 617-982-9481

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Interested individuals should forward their resume and a list of references to Box DCS-94003, PARKE-DAVIS Pharmaceutical Research, Human Resources, 2900 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment."

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- Riverboat dinner and transport: additional $100

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Department of Energy
Human Genome Program Announcement

Program Notice 94-12: Human Genome Program—Technological Advances

ACTION: Notice inviting grant applications

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy (DOE), hereby announces its intent in receiving applications in support of the Human Genome Program. This Program is a coordinated, multidisciplinary, goal oriented, research effort aimed at improving technologies that will lead to a detailed understanding of the human genome at the molecular level. Several research goals are encompassed in this notice, with collaborative, multidisciplinary efforts specifically encouraged. Research will be supported for the development of: 1) integrated approaches to large-scale human genome sequencing that may include supportive mapping and automation; 2) cost-effective DNA sequencing systems that promise more than a 10-fold improvement in throughput; 3) software and resources for real-time analysis and annotation of data from high-speed DNA sequencing systems; 4) resources for facile entry and retrieval of data in community genome maps and DNA sequence databases, including coordinated entry or retrieval across multiple, complementary databases.

PREAPPLICATIONS: Potential applicants are strongly encouraged to submit a brief preapplication that consists of two to three pages of narrative describing the research project objectives and methods of accomplishment. These will be reviewed relative to the scope and research needs of the DOE’s Human Genome Program. Preapplications referencing Program Notice 94-12 should be received by April 15, 1994, and sent to Dr. David A. Smith, Office of Health and Environmental Research, ER-72 (GTN), Washington, D.C. 20585. For express delivery, address to D. A. Smith (telephone (301) 903-6488), 19901 Germantown Road, Germantown, MD 20874. Address submissions by electronic mail to genome@er.doe.gov (in ASCII text please). Telephone and FAX numbers are required parts of the preapplication and electronic mail addresses are desirable. A response to the preapplications discussing the potential program relevance of a formal application generally will be communicated within 30 days of receipt.

FORMAL APPLICATION DATES: Formal applications submitted in response to this notice must be received by 4:30 p.m., E.D.T., July 14, 1994, to be accepted for merit review in September 1994, and to permit timely consideration for award in Fiscal Year 1995.

ADDRESS: Formal applications referencing Program Notice 94-12 should be forwarded to: U.S. Department of Energy, Office of Energy Research, Acquisition and Assistance Management Division, ER-54 (CPTN), Washington, D.C. 20585. The following address must be used when submitting applications by U.S. Postal Service Express Mail or any commercial mail delivery service, or when handcarried by the applicant: U.S. Department of Energy, Office of Energy Research, Acquisition and Assistance Management Division, ER-54, 19901 Germantown Road, Germantown, MD 20874.

SUPPLEMENTARY INFORMATION: It is anticipated that approximately $5,000,000 will be available for grant awards during FY 1995, contingent upon availability of appropriated funds. Multiple year funding of grant awards is expected, and is also contingent upon availability of funds. Previous awards have ranged from $79,000,000 per year for years one to terms of one to three years. Most awards are in the $200,000 to $400,000 per year range for three years. Similar award sizes are anticipated for new grants. Information on the development and submission of applications, eligibility, limitations, evaluation, selection process, and other policies and procedures may be found in the Application Guide for the Office of Energy Research Financial Assistance Programs and 10 CFR Part 605. The Application Guide is available from the U.S. Department of Energy, Office of Health and Environmental Research, Health Effects and Life Sciences Research Division, ER-72 (GTN), Washington, D.C. 20585. Telephone requests may be made by calling (301) 903-6488.

The Office of Energy Research, as part of its grant regulations, requires at 10 CFR 605.11(b) that a grantee funded by ER and performing research involving recombinant DNA molecules and/or organisms and viruses containing recombinant DNA molecules shall comply with the National Institutes of Health "Guidelines for Research Involving Recombinant DNA Molecules" (51 FR 16898, May 7, 1986), or such later revision of those guidelines as may be published in the Federal Register.

The dissemination of materials and research data in a timely manner is essential for progress towards the goals of the DOE Human Genome Program. The OHER requires the timely sharing of resources and data. Applicants should, in their applications, discuss their plans for disseminating research data and materials that may include, where appropriate, putting cell lines, probes, sequence data, software, etc., into public repositories. Once OHER and the applicant have agreed upon a distribution plan, it will become part of the award conditions. Funds to defray the costs of disseminating materials or submitting data to repositories are allowable; however, such requests must be adequately justified. Applicants should also provide timeliness projecting progress toward achieving proposed goals.


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The Department of Molecular and Medical Pharmacology at UCLA is searching for a Pediatric Neurologist with research experience in developmental neurobiology. Applicants must have an M.D. or M.D./Ph.D. and be board eligible or board certified in pediatric neurology. Applicants must have demonstrated research experience and laboratory expertise in mammalian developmental neurobiology. There is particular programmatic interest in the area of the biological basis of cerebral development, neuronal plasticity and compensatory reorganization, with particular emphasis on genetically or neurotraumatically induced factors. The successful candidate would be expected to participate in a developmental neurobiology program and to join our joint Department of Molecular and Medical Pharmacology and the Division of Pediatric Neurology in the Department of Pediatrics at UCLA. This program involves research environments that range from the molecular and cellular level to clinical research in infants and children with Posterior Emission Tomography. The successful candidate will also participate in the education of graduate and medical students. Interested individuals should submit curriculum vitae, representative reprints, three letters of reference and a one-page statement of research to: Dr. Arthur Cho, Search Committee Chair, Department of Molecular & Medical Pharmacology, UCLA School of Medicine, 10833 Le Conte Avenue, Los Angeles, CA 90024-1735 no later than May 18, 1994.

ACADEMIC OPHTHALMOLOGIST
Position: GENERAL OPHTHALMOLOGIST

The University of Nebraska Medical Center's (UNMC) Department of Ophthalmology is seeking a full-time general ophthalmologist. A strong commitment to residents, medical student teaching and research is essential. Requirements include completion of a satisfactory ophthalmic residency and American Board of Ophthalmology eligibility or certification. Experience in the area of corneal disease and refractive surgery is preferred but not required. Must have completed prior teaching and research experience. Salary and rank commensurate with education and experience. Health Professions (tenure-eligible) appointment contract with potential for renewal. Position available July 1, 1994. Send curriculum vitae to: Michael E. Yablonski, M.D., Ph.D., Professor and Chairman, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5540. Telephone: (402) 559-5379, FAX: (402) 559-5354, An Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.

P.H.D. PROGRAM IN VISUAL SCIENCES

The University of Louisville School of Medicine announces a newly established program of graduate studies leading to a Ph.D. in Visual Sciences. Based in the Kentucky Lions Eye Research Institute, this graduate program focuses on the anatomy, biochemistry, physiology and pharmacology of specialized tissues within the eye, and psychophysics of the visual system. Applications are being considered from individuals who wish to enter the program in August 1994. For information, contact Nicholas A. Delamere, Ph.D., Department of Ophthalmology and Visual Sciences, University of Louisville School of Medicine, Louisville, KY 40292. Telephone: (502) 888-8460, FAX: (502) 888-7298.

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