POSITIONS OPEN

AQUATIC BIOLOGIST/TOKICOLOGIST

The Environmental Sciences Program of the College of Food and Natural Resources invites applications for a nine-month tenure-track ASSISTANT PROFESSOR position (50% teaching/50% research). The Program, one of the fastest growing undergraduate majors at the University, which now has over 300 students, is interdisciplinary with faculty from eight departments and two Colleges teaching and advising in the Program. Duties of the new faculty member will include teaching upper-level courses in aquatic toxicology, team teaching an Environmental Biology course for housing undergraduates, as well as teaching in the home Department. Candidates must have an earned doctoral degree in an appropriate field, strong interests and demonstrate a potential for developing strong research and teaching program. Departmental affiliation will depend on candidate's strengths and research interests. Areas of research interest could include: trace metal toxicity, effects of pollutants on aquatic community structure or toxicity to aquatic vertebrate or invertebrate species.

Priority consideration will be given to applications received by April 30, 1993. Search will continue until a final candidate is selected. Send curriculum vitae, transcripts and statement of research and teaching goals with the names, addresses and telephone numbers of a minimum of three references to: Chairperson, Aquatic biologist/tokicoologist Search Committee, Environmental Sciences Program, 24 Stockbridge Hall, University of Massachusetts, Amherst, MA 01003.

The University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority candidates.

FACULTY POSITION

Brookdale Center for Molecular Biology

The Mount Sinai School of Medicine

Applications are invited for tenure-track positions at the level of ASSISTANT or ASSOCIATE PROFESSOR in the newly established Brookdale Center for Molecular Biology. While we are particularly interested in applicants with research interests in the cellular and molecular aspects of oncology, strong candidates with interests in other aspects of developmental biology or molecular genetics are also invited to apply. The new faculty member will be expected to develop an independent basic research program and participate in the training of Ph.D. and M.D./Ph.D. students and postdoctoral fellows. The selected candidate will have the opportunity to work in new laboratories contiguous with common equipment rooms and extensive, state-of-the-art core research facilities. Start-up funds and extended long-term support are available for salaries, technical help, supplies and equipment.

Applicants should submit curriculum vitae, reprints and a statement of research interests and future plans. Letters of reference should be sent directly to: Dr. Robert A. Lazarin, Brookdale Center for Molecular Biology, Box 1126, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.

The Mount Sinai School of Medicine is an Equal Opportunity/Affirmative Action Employer.

BETH ISRAEL HOSPITAL

HARVARD MEDICAL SCHOOL

DEPARTMENT OF PATHOLOGY

The Harvard Department of Pathology at Beth Israel Hospital seeks well-qualified applicants (Ph.D., M.D., Ph.D. or M.D.) for ASSISTANT or ASSOCIATE PROFESSOR positions as part of an expansion of our basic research program in tumor biology. Candidates should have completed 3 to 5 years of relevant postdoctoral experience and have the capability of directing an independent research program in an academic setting in an area of tumor biology such as tumor stroma and its generation, angiogenesis, the tumor microenvironment, tumor invasion or metastasis. Candidates are expected to participate in the teaching activities of the department and to develop collaborations with other researchers and students and postdoctoral fellows. New laboratory space will become available in January 1994. Applicants should submit curriculum vitae, research interests, and three references to: Dr. Harold D. Vdrorak, M.D., Chief, Department of Pathology, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215. Beth Israel Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.

POSITIONS OPEN

Tenure-track faculty position as ASSISTANT or ASSOCIATE PROFESSOR in the Division of Foods and Nutrition at the University of Illinois–Urbana. Responsibilities include undergraduate teaching, research and recruiting of external funding in biochemical and molecular nutrition with a specialization in vitamins, minerals, and other nutrients, but other areas will be considered. Available August 21, 1993. Application must be received by April 23, 1993. Send letter of application, including a statement of research and teaching interests, teaching experiences, and three letters of reference to: Dr. Donald K. Layman, School of Human Resources and Family Studies, University of Illinois, Urbana, IL 61801; Telephone: (217) 333-3791. UIUC is an AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

FACULTY POSITION

IN HUMAN GENETICS

As the first phase of a major expansion in human genetics, the Laboratory of Genetics, University of Wisconsin–Madison, seeks to hire an ASSISTANT or ASSOCIATE PROFESSOR. Candidates should possess an M.D. and/or Ph.D. degree and direct an active research program in human genetics. Joint appointments with appropriate clinical departments are possible for M.D. applicants. Laboratory space will be available in the new Genetics-Biotechnology Stockade being constructed under construction. Please send curriculum vitae, a statement of research interests, three letters of recommendation, and representational information to: Dr. Richard Spritz, 118 Genetics, 445 Henry Mall, Madison, WI 53706.

The University of Wisconsin–Madison is an Affirmative Action Employer. Women and minority scientists are encouraged to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

BOTANIST

The Department of Biology invites applications for a tenure-track ASSISTANT PROFESSOR from candidates committed to excellence in research and in teaching at introductory and advanced levels. Area of research is open. Preference may be given to candidates able to teach genetics. Submit curriculum vitae, reprints, statement of research interests, and three letters of recommendation to: William E. Cooper, Chair, Department of Biology, Indiana University–Purdue University Fort Wayne, Fort Wayne, IN 46805 by April 5, 1993. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR:
Eastern Washington University

Department of Biology invites applications for a tenure-track position in Development/Cell biology or Environmental biology. Teaching responsibilities include a one-year general biology course for majors plus electives. Eastern Washington University is an Affirmative Action/Equal Opportunity Employer. Please send curriculum vitae, statement of research and the names and addresses of three references to the Department of Biology, Eastern Washington University, Cheney, WA 99004–2499.

FACULTY POSITIONS

The Department of Health Sciences at East Tennessee State University seeks applicants for two tenure-track positions, contingent upon funding, at the ASSISTANT PROFESSOR level opening in August 1993. The positions require teaching undergraduate courses in anatomy, physiology, and microbiology and development of a fundable research program. Ph.D. preferred; however, candidates holding other graduate degrees with university-level teaching experience in all three areas may be considered. Screening of applicants will begin in April 1993 and continue until the position is filled. Send curriculum vitae, a description of research interest, and the names of three references to: Dr. Michael T. Gallagher, Professor of Health Sciences, East Tennessee State University, Department of Health Sciences, P.O. Box 723, Johnson City, TN 37614–0673. East Tennessee State University is an Equal Opportunity/Affirmative Action Employer.
GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF MATERIALS, ENERGY 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 energy area and the global environment area will be provided with grants from FY 1993. 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 provided 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 1983's program is show 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>
<tbody>
<tr>
<td>Materials</td>
<td>1) Basic research concerning the investigation and elucidation of materials.</td>
<td>about 30,000,000 yen in FY 1993</td>
<td>5 themes</td>
<td>NEDO (Note a.)</td>
</tr>
<tr>
<td></td>
<td>2) Basic research concerning the practical use of materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>Practical research on power generation technologies using oil-alternative energy, on load leveling technologies and on global environment conservation related to those technologies.</td>
<td>about 30,000,000 yen in FY 1993</td>
<td>2 themes</td>
<td></td>
</tr>
<tr>
<td>Global</td>
<td>1) Basic research on conservation and improvement of the global environment</td>
<td>about 24,000,000 yen in FY 1993</td>
<td>2 themes</td>
<td>RITE (Note b.)</td>
</tr>
<tr>
<td>Environment</td>
<td>2) Practical research concerning the production, generation and use of oil-alternative energy which contributes to the conservation and improvement of the global environment.</td>
<td>about 30,000,000 yen in FY 1993</td>
<td>2 themes</td>
<td></td>
</tr>
</tbody>
</table>

(Recipients of Applications)

Note a. Materials and energy areas

International Joint Research Division.
Industrial Technology Department
New Energy and Industrial Technology Development Organization (NEDO)
Address: 21F, Sunshine Bldg.,
3-1-1 Higashi-Ikebukuro, Toshima-ku,
Tokyo, 170 Japan
Phone No.: 03-3987-9357
Telefax No.: 03-3981-1536

Note b: Global environment area

Research Proposals Reception Section.
Research Planning Department
Research Institute of Innovative Technology for the Earth (RITE)
Address: 4F, Shin-Kyoto Center Bldg.,
Karasumanishi-iru
Shiokouji-dori, Shimogyo-ku, Kyoto 600 Japan
Phone No.: 075-361-3811
Telefax No.: 075-361-5607

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 February 25, 1993 to May 25, 1993. No application will be accepted later than May 25th.

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.
AFFIRMATIVE ACTION PROFESSIONAL FELLOWSHIP in PLANT DEVELOPMENTAL BIOLOGY

Applications are invited for a one-year leave replacement beginning September 1, 1993, at the rank of ASSISTANT PROFESSOR in the Department of Biology. Teaching responsibilities include a course in developmental botany, a course in vascular plants, a seminar in area of special interest, and participation in laboratory instruction. Applications are encouraged from candidates with a Ph.D. and/or postdoctoral experience. The anticipated date of appointment is January 1, 1994.

The University of California is an Equal Opportunity/Affirmative Action Employer.
Training And Research Opportunities In The Biomedical Sciences.

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.

**Actomyosin-Dependent Cell Motility**
Edward D. Korn, PhD
Several positions are available to study the biochemistry of cell motility. Projects include the regulation of actin polymerization; the site-specific mechanisms by which myosin phosphorylation regulates actomyosin ATPase activity; regulation of the myosin kinases; specific cellular localizations and specific functions of myosin isoforms; actin and actin-binding proteins; correlation of cell motile events to the biochemical state of myosins and kinases; and the mechanisms of interactions of myosins with cell membranes. Laboratory of Cell Biology (OE-28), NHLBI, Building 3, Room B1-22.

**Biochemistry and Cell Biology of Molecular Chaperones**
Lois Greene, PhD
The 70 kDa heat-shock proteins, known as molecular chaperones, occur in all living cells and are involved in folding and unfolding proteins, dissociating protein complexes, and translocating proteins across membranes in ATP-dependent reactions. Current studies focus on the role of these proteins in endocytosis. Site-directed mutagenesis and cell free assays are being used to study chaperone action in the cell, and the role of both ATP hydrolysis and protein cofactors in their function in vivo is being explored. Laboratory of Cell Biology (OE-28), NHLBI, Building 3, Room B1-22.

**Chimeric Toxins for HIV-1 Therapy**
Stephen H. Leppla, PhD and Jerry M. Keith, PhD
Features unique to bacterial toxins are exploited to specifically kill HIV-1 infected cells. Toxins are redirected to HIV-1 infected cells by creating fusion proteins containing single chain antibodies, growth factors, or other ligands. In addition, retroviral constructs will be made in which expression of toxin proteins that sensitize cells to exogenous agents will be under HIV-1 transcriptional control. Experience in eukaryotic cell expression systems, transcriptional control, or retroviral molecular biology is preferred. Laboratory of Microbial Ecology (OE-28), NIDR, Building 30, Room 316.

**HIV-1 Envelope Glycoprotein-Mediated Membrane Fusion**
Robert Blumenthal, PhD
Studies on HIV-1 envelope protein-mediated membrane fusion are carried out with intact virus as well as with viral proteins expressed on surfaces of cells using recombinant vectors containing viral envelope protein genes. Experience in cellular virology, membrane biochemistry and biophysics, mathematical modeling, spectrofluorometry and video microscopy, and computer systems is required. Candidates must be US citizens or permanent residents. Section on Membrane Structure and Function (OE-28), NCI, Building 10, Room 4A01.

**Immunology**
Ahmer Notkins, MD
Senior Staff Fellow position for experienced investigator to study polyreactive antibodies and the biology of CD5+ and CD5- B cells. Studies also focus on the production of human monoclonal antibodies against clinically-relevant antigens and antigen processing/presentation. Experience in molecular biology is required. Opportunity exists to have technical and/or postdoctoral support. Laboratory of Oral Medicine (OE-28), NIDR, Building 30, Room 127.

**Nucleic Acid Modelling**
Robert L. Jernigan, PhD
Molecular models of multistranded structures are being developed including molecular models of DNA recombination. Knowledge of molecular biology, molecular mechanics, computer workstations, and the ability to devise new methods of calculation as needed are required. Applicants must be US citizens or permanent residents. Laboratory of Mathematical Biology (OE-28), NCI, 6010 Executive Boulevard, Suite 217, Rockville, MD 20850.

**Additional Postdoctoral Fellowship Opportunities**
For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3004922221 or 1,8003582221). The settings for modem access are "7,Even,1," when connected to NIH, type in ",r100" at the connect message, "F5E" at initial, and "AJL" at account. A catalog describing NIH research opportunities 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.umn.edu") must be running on your computer and configured to point to "gopher.nih.gov", port "70". Select NIH 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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National Institutes Of Health

9000 Rockville Pike, Bethesda, MD 20892
Equal Opportunity Employer
AGENCY: Department of Energy
Office of Energy Research


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 Issues (ELSI) activities of the Human Genome Program (HGP). This Program is a coordinated, multidisciplinary research effort aimed at developing creative, innovative resources and 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 DOE especially encourages the submission of applications to conduct multidisciplinary, empirical research on privacy issues from the point of view of policy makers, maintenance, and legal information dissemination, and may include but is not limited to issues of ownership and information, and the role(s) of high performance computers in information management relevant to genetic data. Applications 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.

D A T E S: Formal applications submitted in response to this notice must be received by 4:30 p.m., E.D.T., July 15, 1993, to be accepted for merit review in September 1993, and to permit timely consideration for award in Fiscal Year 1994.

A D D R E S S: Formal applications referencing Program Notice 93-13 should be forwarded to: U.S. Department of Energy, Acquisition and Assistance Management Division, ER-64, Washington, D.C., 20585, ATTN: Program Notice 93-13. The following address must be used when submitting applications by U.S. Postal Service Express Mail or commercial mail delivery service, or when hand-carried by the applicant: U.S. Department of Energy, Acquisition and Assistance Management Division, ER-64, 19900 Germantown Road, Germantown, MD 20874.


The National Aeronautics & Space Administration (NASA) is accepting applications for the following Senior Executive Service (SES) vacancy:

P O S I T I O N: Director, Astrophysics Division
O P E N I N G: Office of Space Science & Applications,
NASA Headquarters, Washington, DC
S A L A R Y R A N G E: $92,900 - $115,700

The Director of Astrophysics establishes policy and provides overall direction and management of a national astrophysics program in meeting research objectives related to the origin and evolution of the universe. The Director supports the Associate Administrator for Space Science and Applications (OSSA) in determining and presenting the Astrophysics Program to NASA top management, the Office of Management & Budget and the Congress. The Director has overall responsibility for the development of plans and studies conducted in the astrophysics discipline areas to determine the programs needed to support the objectives of OSSA and the Agency. This includes coordination within NASA, other government agencies, the private sector and the international community to establish a cohesive program of astrophysics research and to build an advocacy for the program. The Director provides the scientific, managerial and technical leadership required to implement the plans at the NASA Field Centers, other government research laboratories, universities and industry.

Interested persons should contact Ms. Becky Mulkey, NASA HQ Astrophysics Division, at (202) 358-0340 for additional information concerning application requirements and instructions. Applications must be received by April 16, 1993.

RESEARCH SPECIALIST
Division of Reproductive Endocrinology & Infertility

The Department of Obstetrics and Gynecology at Cornell University Medical College seeks a Research Specialist for in-Vitro Fertilization Program which is the largest such program in the United States.

Working in our Reproductive Endocrinology Laboratory, the Research Specialist will be in charge of embryo and cell cultures and purification and isolation of protein DNA and RNA. Will also perform southern, northern and western blot techniques.

Candidates must possess a Masters degree in Biochemistry, Biology or Molecular Biology with prior experience. Candidates holding a Ph.D. are preferred.

Excellent benefits include health, dental and tuition plans. Send resume with salary history to:

H.L. Brown

The University of Michigan invites applications and nominations for the position of Dean of the School of Nursing. The University of Michigan has a total enrollment of approximately 36,000 students on the Ann Arbor campus. The School of Nursing, with enrollment of about 900 students and over 100 faculty members, offers the BSN, MS and PhD degrees. The Dean is the chief academic and administrative officer of the School and reports to the Provost and Vice President for Academic Affairs. The School of Nursing is ranked among the top five nursing schools in the United States.

Candidates for this position should have an earned doctorate in nursing, or a related field, and be eligible for licensing as a Registered Nurse in the State of Michigan. Achievement in research; successful college teaching; experience in clinical nursing; effective communication, interpersonal, motivational, and public relations skills; education/administration experience in baccalaureate and/or higher degree programs in nursing; demonstrated commitment to the principles of affirmative action and equal employment opportunity are required. The Dean is expected to maintain high academic standards and national accreditation for the School. Awareness of current issues in nursing and higher education; the ability to stimulate interdisciplinary and intra-disciplinary work; and an understanding of the mission of a leading research university are crucial. Deans at the University of Michigan play a major role in the fundraising effort.

Applications should include a detailed curriculum vita and the names, addresses, and telephone numbers of three references. While applications are being considered until the position is filled, we will begin reviewing applications in April 1993. The University's dedication to excellence is complemented by our commitment to building a culturally diverse staff. Therefore, we encourage individuals from underrepresented groups to apply. The position will be available on July 1, 1993.

Nominations and applications should be sent to: Nola J. Pender, Ph.D, RN, FAAN, Chair, Search Committee for Dean, School of Nursing, University of Michigan, 3071 Fleming Building, Ann Arbor, MI 48109-1340. Telephone: 313/763-8535; FAX: 313/763-4546.

University of Michigan
Dean, School of Nursing

an equal opportunity, affirmative action employer

CORNELL UNIVERSITY MEDICAL COLLEGE
445 East 68th St., NY, NY 10021.
EEO/AA/M/F/D/V.
Neurotoxicologist

Ciba Plant Protection has an opening for a Neurotoxicologist at its Environmental Health Center in Farmington, CT. Primary responsibilities include the design, conduct and interpretation of neurotoxicity studies to evaluate product safety, meet health safety guidelines of governmental regulatory agencies and support product registrations. Our standard neurotoxicity studies include assessments of functional, behavioral and neurohistological parameters, as well as assessments of systemic toxicity. In addition, the successful candidate may be asked to serve as study director on general and reproductive toxicology/teratology studies.

Candidates should have a PhD in Toxicology or one of its specialty disciplines, neuroscience or a related field. Experience with behavioral testing procedures and equipment and the use of computers is essential. Candidates should also have demonstrated knowledge of experimental design, statistical analysis and excellent oral and written communication skills. The candidate must be able to work within a collaborative team-oriented environment.

Ciba offers on-going growth opportunities, excellent salaries and an attractive package of paid company benefits. The Environmental Health Center is located near the University of Connecticut Health Center, in one of the state's most attractive semi-rural towns. To apply, please send your resume, a brief description of your experience and salary requirements to: Human Resources Department, Ciba Plant Protection, 400 Farmington Avenue, Farmington, CT 06032. We Are An Equal Opportunity Employer M/F/D/V.

EXECUTIVE SECRETARY
European Molecular Biology Organization (EMBO)
Heidelberg, Germany

The EMBO Council invites applications for the position of Executive Secretary of EMBO. The successful candidate will work initially as deputy Executive Secretary under John Tooze and will become Executive Secretary in January 1995.

The successful candidate will be responsible for coordinating the various activities of EMBO, including its fellowship programmes, courses, workshops and the symposium. The Executive Secretary also acts as Secretary to the European Molecular Biology Conference (EMBC). The Conference is the intergovernmental body which provides the funds for the EMBO activities. The Executive Secretary reports directly to the EMBO Council and to the Secretary General of the EMBO.

Candidates should have a Ph.D. in molecular biology or a related subject, several years of administrative experience, be fluent in English and also have some knowledge of French or German.

The duty station is in the EMBO office, located in the European Molecular Biology Laboratory (EMBL) in Heidelberg, Germany. The position is graded at levels 10 or 11 (EMBL scale), depending on experience, and will be available from the autumn of 1993.

Applications should be sent to Professor Jeff Schell, Chairman of the EMBO Council, at the address below, by 1 May 1993:

MPI für Züchtungsforschung
Abt. Genetische Grundlagen der Pflanzenzüchtung
Carl-von-Linné-Weg 10
DW-5000 Köln 30
Germany

Cell Proliferation and Eicosanoids
(Molecular Biologist)

A post-doctoral position is available in the Eicosanoid Biochemistry Workgroup of the Laboratory of Molecular Biophysics to study the epidermal growth factor stimulated formation of oxygenated lipids derived via lipoxygenase and/or prostaglandin H synthase pathways. These studies are focused on determining the role of these lipid mediators in mitogenic signal transduction with particular emphasis on the interaction of oxygenated lipids with tyrosine kinases and phosphatases.

Individuals with a strong background in molecular biology are desired to isolate, clone and sequence relevant genes and to study the regulation of their expression by kinase activity.

FOR PROMPT CONSIDERATION: Send cover letter indicating area of interest, Curriculum Vitae, and three letters of reference by March 26, 1993 to:

Dr. Thomas Eling
NIEHS, LMB, MD 19-04
P.O. Box 12233
Research Triangle Park, NC 27709
Phone: (919) 541-3911
Fax: (919) 541-7880

NIH is an Equal Employment Opportunity Employer
**ANATOMIST**

The Department of Oral Biology, Faculty of Dentistry, invites applications for an appointment at the ASSOCIATE/ASSOCIATE PROFESSOR level, commencing April 1, 1993. Applicants should have the following qualifications:

(a) Ph.D. or equivalent in an appropriate basic science department. The successful candidate will be expected to develop a strong externally funded research program. The University of Manitoba encourages applications from women and members of visible minorities.

(b) Minimum of 3 years of postdoctoral experience. The successful candidate will be expected to teach oral histology, anatomy, and a variety of other courses.

(c) Experience in administration and external funding. The successful candidate will be expected to manage and maintain a large, well-equipped facility.

(d) Experience in laboratory functions, research in cell and molecular biology. The successful candidate will be expected to participate in both the undergraduate and graduate teaching programs in cell biology. The Department of Oral Biology and the Oral Biology, Faculty of Dentistry, University of Manitoba, Winnipeg, Manitoba, R3E 0Y2. Deadline for applications is June 30, 1993, or until the position is filled.

**VISITING ASSISTANT PROFESSOR OF BIOLOGY**

Anticipated one-year sabbatical replacement position beginning fall, 1993. Applicants should possess a strong background in cell and molecular biology and an interest in teaching. Teaching responsibilities include an upper-division cell biology course, an upper-division course in animal cell biology, and participation in oral biology laboratories. Ph.D. required. Applicants should forward curricula vitae, evidence of teaching effectiveness, and three letters of recommendation to:

Dr. Sally Nyquist, Chair Department of Biology Bucknell University Lewisburg, PA 17837

Closing date for applications: March 31, 1993. Women and members of minority groups strongly encouraged to apply.

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**RESEARCH ASSISTANT PROFESSOR, TENURE-TRACK POSITION**

The University of New Mexico School of Medicine (UNMSOM) is seeking applicants with a Ph.D. in biochemistry for the position of RESEARCH ASSISTANT PROFESSOR. Salary in the $28,000 per annum range and tentative start date of July 1, 1993. The primary appointment will be in the Department of Surgery with a secondary appointment in the Department of Biochemistry. Candidates should have a demonstrated ability to initiate and develop an independent research program and successfully compete for extramural funding. They should be familiar with radiomunoassay techniques and methods of protein and enzyme analysis and have experience in tissue culture and resident teaching is expected. Interested applicants should send curriculum vitae, representative publications and the names of three references to: Karl A. Zucker, M.D., Department of Surgery, 2211 Lomas Boulevard, NE, Albuquerque, NM 87131. UNMSOM is an Equal Opportunity/Affirmative Action Employer.

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**THE AMERICAN UNIVERSITY**

Conservation Biology/Evolutionary Biology

The Biology Department, part of the College of Arts and Sciences, invites applications from qualified candidates for a tenure-track position as ASSISTANT PROFESSOR in conservation biology/evolutionary biology beginning 1993-94 academic year. Preference will be given to candidates applying molecular techniques to environmental and evolutionary problems. Responsibilities include active research program, teaching graduate and undergraduate courses in conservation and evolutionary biology, student advising, and department and university service. Qualifications: Ph.D. required, college-level teaching experience preferred. Salary competitive, commensurate with qualifications and experience. Deadline for applications is April 15, 1993, and will continue until position is filled. Send curriculum vitae and names of three references to: Dr. David C. Culver, Chair, Department of Biology, American University, Washington, D.C. 20016. Equal Employment Opportunity/Affirmative Action University; women and minorities candidates are encouraged to apply.
THE AARON DIAMOND FOUNDATION
POSTDOCTORAL RESEARCH FELLOWSHIPS
in the Biomedical and Social Sciences

In 1993, The Aaron Diamond Foundation will support 25 postdoctoral research fellowships—to encourage excellence in research addressing the problems of AIDS and drug abuse and to increase the number of biomedical and social scientists working in New York City on these problems. The fellowship program is administered by the New York State Health Research Council, aided by a panel of distinguished scientists comprising the Fellowship Selection Committee.

The fellowship application is co-developed by the potential fellow and a mentor at a New York City institution: A list of nearly 200 established scientists interested in serving as mentors is included in the application materials, although applicants may apply with any qualified New York City scientist.

Support is provided for two years; a third fellowship year may be awarded upon subsequent application. The annual stipend is $36,000 in the first year; the mentor's institution receives $30,000 per year to cover costs associated with the fellow's research.

Preference is given to; (1) those with doctoral degrees awarded after 1986 (generally MDs must have completed their residency, while applicants with non-medical degrees may initiate the fellowship immediately after graduation); (2) applicants early in their careers, with three or fewer years of postdoctoral research experience; (3) those who are relocating to New York City; and (4) U.S. citizens or permanent residents. Women and members of minority groups are especially encouraged to apply.

APPLICATION DEADLINE: JULY 30, 1993

FURTHER INFORMATION:
Margaret Brown, Ph.D., Program Director
The Aaron Diamond Foundation Postdoctoral Research Fellowship Program
5 Penn Plaza, Room 308
New York, NY 10001
(212) 615-2525

ASSOCIATE SCIENTIST
Molecular Biology

The successful candidate will assist in supporting structure-based drug discovery efforts, as well as novel therapeutic target identification. Major duties will include performing cloning, site-directed mutagenesis and sequencing experiments. In addition, this individual will construct and analyze genetically transformed yeast cells for the production of heterologous proteins that are of interest as therapeutic targets.

Background must include a BS Degree in a Biological Science with a minimum of 2 years experience in genetic manipulations including cloning, mutagenesis, sequencing and expression of genes and their mutant forms in microbial systems. Experience in yeast genetics or expression systems would be a plus.

At Glaxo, pride in our people is reflected in an excellent salary and a flexible benefits package, as well as in such amenities as an on-site fitness center and a work setting in which you will take pride. Equally appealing is our world famous scientific, industrial, and academic community in Research Triangle Park, NC. Send your resume, which must include position title and salary history, to: Human Resources Department, Job #ASC911805, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
The Time For Achievement Is Now
The ELECTRON MICROSCOPY LABORATORY at the University of California, Berkeley, has an opening for a full-time, career SUPERVISORY POSITION to oversee and direct the interdepartmental EM facility for the School of Biological Sciences. The Director will have administrative, teaching, service, and research duties, will be a member of the University’s Animal Resources Committee, and will report to the Associate Dean of the School of Sciences. Duties will include administrative authority over the laboratory animal services and facilities for the School and overseeing procedures and protocols to ensure compliance with federal regulations for the humane care and use of animals.

Applicants must possess a Doctor of Veterinary Medicine degree, be a Diplomate of the American College of Laboratory Animal Medicine, be licensed or eligible for licensure in Indiana, and have a working knowledge of and experience with AALAC accreditation. A tenure-track faculty appointment may accompany the directorship if credentials and experience warrant. An excellent opportunity exists for an outstanding candidate and collaborative researcher. Application reviews will begin immediately and will continue until the position is filled. Send curriculum vitae and three references to: Dr. Douglas D. Klein, Chairman, LARC Search Committee, Indiana University School of Medicine, 1120 South Drive, Feiler Hall 302, Indianapolis, IN 46225. AALAC, Equal Opportunity Employer, M/F.

RESEARCH MANAGER—BIOLOGICALS

Kemin Industries, Inc., a leader in the production of animal feed ingredients, has an immediate opening in its Research and Development Department for a Research Manager who would oversee research on its digestive enzymes and edible antimicrobials. The Research Manager will report directly to the Vice President of R&D and will have principal responsibility for the invention of enzyme products to increase the digestibility of animal feeds as well as products to protect feeds from molds and bacterial contamination (e.g., Salmonella). Major job functions include direction of laboratory personnel, data interpretation and writing, bench laboratory work on particular enzymatic assays. Preference will be shown to those with previous industrial/supervisory experience as well as individuals who are highly motivated and who can show an agricultural background. Job offer is conditional on passing a medical examination including a drug screen. Smoking is prohibited in all buildings. Kemin Industries is an Equal Opportunity Employer. Please forward your resume to: Dr. C. E. Nelson, Vice President of Research and Development, Box 70, Des Moines, IA 50301.

VISUAL NEUROSCIENCE

Tenure-track FACULTY POSITION (any level). Emphasis is placed on research and graduate education in close communication with a large group of visual scientists. Areas of interest include molecular biology, photoreceptor cell biology, retinal and central circuitry and behavioral studies. Excellent funding is available for senior appointments. Send curriculum vitae, names of three references and a statement of research interests and plans to: Dr. H. G. Sperling, Sensory Center, The University of Texas Health Science Center at Houston, Graduate School of Biomedical Sciences, 6420 Lamar Fleming Avenue, Houston, TX 77030. The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITION IN GENETICS—DUKE UNIVERSITY MEDICAL CENTER invites applications for a faculty position in genetics, with a focus on development. This is an outstanding opportunity to join an established and highly respected department at a leading medical center. The appointee should have a Ph.D. in genetics, and have a demonstrated record of excellence in research. The Department is particularly interested in applicants with expertise in human genetics or in the use of genetic technologies to study development. Applicants should send a curriculum vitae, and names and addresses of three references to: Dr. J. Turner, Department of Biochemistry, Box 3077, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

The University of California is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

The University of California seeks an ASSISTANT PROFESSOR for a 3-year term appointment to teach introductory courses in general biology for non-majors and botany/taxonomy for majors beginning in August 1993. Ph.D. or D. Phil. degree is preferred. Duties will include lecture and laboratory instruction. There will be a 12-hour teaching load. Opportunities for development of instructional materials will be provided. The search is ongoing, and applications are being accepted until the position is filled. Send letter of application, curriculum vitae, graduate and undergraduate transcripts, and three letters of support to: Dr. R. F. Ferris, Department of Biology, University of Richmond, VA 23173. The University of Richmond is an Affirmative Action/Equal Opportunity Employer and it encourages women and minorities to apply for its positions.

SIMMONS COLLEGE DEPARTMENT OF BIOLOGY

ASSISTANT PROFESSOR, tenure-track position to begin September 1993. Teaching responsibilities will include Neurobiology, General Biology, Anatomy and Physiology. Applicants are eligible for tenure. Appointment is renewable with opportunities for student participation. Simmons College is a progressive women’s college which combines liberal arts with professional education. Equal opportunity employer, applications and application procedure, write to: Dr. Karen Talento, Department of Biology, Simmons College, 300 The Fenway, Boston, MA 02115. Applications should be received by March 31, 1993.


ASSISTANT PROFESSOR, full-time, TENURE-TRACK, THERAPEUTIC RADIATION/RADIATION ONCOLOGY. Requirements: M.D., Minnesota licensure by start date and board certification in Therapeutic Radiology/Radiation Oncology. Candidate should have at least one year of academic experience, and experience in interstitial radiation therapy. Experience in neuro-oncology, gynecologic and pediatric oncology patient care desired. Must be interested and experienced in academic radiation oncology in the area of radiation therapy. Position involves teaching medical fellow specialists, medical students and radiophysics residents in the medical physics aspects of radiation therapy. This position entails patient care in all radiotherapy modalities. Salary open to negotiation depending upon experience. Start date is July 1, 1993. Apply to: Search Committee, Department of Therapeutic Radiology, Box 494 UMHC, Harvard Street at East River Road, Minneapolis, MN 55455 before March 31, 1993. The University of Minnesota is an Equal Opportunity Educator and Employer.

TWO POSTDOCTORAL POSITIONS available immediately to study the enzymology of anaerobic CO/CO₂ fixation by aceticogenic and methanogenic bacteria and anaerobic biomethanization of halogenated and aromatic compounds. Experience in anaerobic microbiology and enzymology is required and experience in spectroscopy is desirable. Applicants should send curriculum vitae and names of three references to: Dr. J. V. Simmons, Department of Biochemistry, East Campus, University of Nebraska, Lincoln, NE 68583-0718. Affirmative Action/Equal Opportunity Employer.

AQUATIC TOXICOLOGIST. A position is available immediately for a Ph.D. (or M.S. with experience) with expertise in aquatic toxicology and toxicity testing. This position requires expertise in sublethal and lethal exposures of estuarine fish to pesticides. Anticipated funding for 18 months at a salary up to $30,000 per year. Opportunity for summer research and curriculum vitae (with names of three references) to: Dr. Bob Van Dolah, Marine Resources Research Institute, PO Box 124, Barton, SC 29022. For more information, call 803-762-5048. The SCMRCl does not discriminate on the basis of race, sex, color, national origin, religion, age or disability.
Avigen is an exciting new gene therapy company that is developing treatments for selected diseases using adenovirus-associated viral (AAV) vectors to insert genes into patients' cells. The company believes that its proprietary gene delivery system represents a major step forward in the clinical utility and commercialization of gene therapy. Our initial programs will be concentrated in the areas of sickle cell anemia, antivirals for HIV, and chemotherapeutic drug tolerance. The company has openings for outstanding individuals in the following areas:

**Director of Research**

This individual will be responsible for the overall direction of the company's research programs. Applicants must have a Ph.D. or M.D. and at least 10 years of post graduate experience in a cutting edge research environment. Candidates with a background in hematopoiesis and/or virology and at least 2 years experience in a biotech or pharmaceutical company, including management responsibilities, will be given a strong preference.

**Virologist**

The successful candidate will carry out innovative research in our exciting antiviral program. Applicants must have a Ph.D. or M.D. and post graduate research experience in molecular biology and virology, particularly HIV biology. Candidates with biotech experience will be given a preference.

**Hematologist**

This individual will conduct state of the art research in our sickle cell anemia program. Applicants must have a Ph.D. or M.D. and postgraduate research experience in hematopoiesis and molecular biology. Candidates should have previous experience in a biotechnology or pharmaceutical company.

**Purchasing Manager/Laboratory Manager**

This individual will set up and manage all aspects of the company's purchasing and laboratory support departments. Candidates with a BS and a strong technical background in molecular biology or cell biology will be given a preference.

Avigen is committed to providing exciting career opportunities to creative, highly motivated individuals. We are an equal opportunity employer. Submit resumes to: Human Resources, Avigen, Inc., 1201 Harbor Bay Parkway #1000, Alameda, CA 94501.

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**DIRECTOR OF INTERDEPARTMENTAL PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY**

Hahnemann University is seeking an outstanding molecular biologist to enhance and direct an inter-departmental graduate program in Molecular Biology and Biotechnology. The Director will be expected to continue a competitive research program and participate in training students. The successful candidate (Ph.D., M.D., or M.D./Ph.D.) shall have a strong record of accomplishments in research and be qualified for a tenured appointment at the full professor level in the Department of Biological Chemistry.

Hahnemann University is a dynamic academic health center in central Philadelphia with more than 2000 students enrolled in the Graduate School, Medical School, and School of Health Sciences and Humanities. The Graduate School has over 700 Masters and Ph.D. students in 26 different programs, with major inter-disciplinary research programs in molecular biology, neuroscience, immunology, cardiovascular diseases, and neoplastic diseases. The current Molecular Biology Program includes faculty from the Departments of Anatomy, Biological Chemistry, Microbiology/Immunology, Neoplastic Diseases, and Pathology/Laboratory Medicine. Hahnemann University Hospital has 616 beds and is a modern tertiary care hospital.

Applications, including a curriculum vitae and names of four references, should be sent to:

Molecular Biology Search Committee
ATTN: Thomas M. Devlin, Ph.D., Chair
HAHNEMANN UNIVERSITY
Mail Stop 411
Broad and Vine Streets
Philadelphia, PA 19102-1192

Hahnemann University is an Equal Opportunity Affirmative Action Employer and invites and encourages applications and nominations from women and under-represented minorities.

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**SENIOR SCIENTIST**

**Drug or Carcinogen Metabolism**

The Biology and Biotechnology Research Program at Lawrence Livermore National Laboratory (LLNL) is seeking a senior scientist/principal investigator to join its expanding, multidisciplinary research team focusing on molecular carcinogenesis. The individual is expected to develop a program in metabolism that concentrates on the biotransformation of carcinogens in cell culture, animal models, and/or humans. Applicants with a background in pharmacogenetics and/or molecular biology are encouraged.

This is an independent research position for an individual with a commitment to a collaborative research environment. Postdoctoral experience or equivalent is required. Start-up funds are available. The BBR Program offers excellent research facilities and a competitive salary and benefits package.

For technical information contact: Dr. James Felton, Molecular Toxicology Group at 510-422-5568 or Fax 510-422-2282. Interested applicants are invited to send their CVs including references to: Phil Harding, Professional Employment Division, Lawrence Livermore National Laboratory, Dept. A93185B1, P.O. Box 805, L-725, Livermore, CA 94551-9900. U.S. Citizenship required. We are proud to be an Equal Opportunity Employer M/F/D/V.

University of California

Lawrence Livermore National Laboratory
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Pfizer is a lot more than a pharmaceuticals and healthcare industry leader. It's a group of people dedicated to discovering, developing and marketing innovative pharmaceuticals, animal health and food industry products that improve the quality of life worldwide. As a Fortune 100 company, Pfizer is committed to continuing its remarkable growth by investing close to a billion dollars annually in research and development.

If you have a BS or MS, 3-5 years relevant laboratory experience and strong theoretical knowledge, take advantage of this opportunity to join multi-disciplinary teams in one of the following areas:

**Infectious Diseases** – Prepare and maintain cultures of human pathogens used in *in vitro* and *in vivo* screens; take part in the implementation of new molecular technologies for the evaluation of antimicrobial agents.

**Infectious Diseases, Molecular Biology** – Utilize contemporary molecular biology techniques to assist in the identification and characterization of new antimicrobial targets.

**New Leads** – Be involved with the development/characterization and implementation of novel radioligand binding and enzyme high throughput screens.

**Metabolic Diseases, Lipid Metabolism** – Study biochemistry and physiology of cholesterol, bile acid and/or lipoprotein metabolism.

**Protein Purification/Preparation** – Be involved with the purification and preparation of proteins for structural studies which would include obtaining high purity protein samples, crystallizable material and heavy atom crystal derivatives.

**Immune Suppression** – Perform *in vivo* (transplantation) procedures, tissue culture, radiisotopic labeling, and work with unknown compounds and human tissue.

Our excellent benefits include competitive salaries, health and dental care, paid holidays and vacations, savings, investment and pension plans, and relocation assistance to our attractive Connecticut shore location.

To learn how you can be part of our success, please send your resume to: Ms. Ellen Buller, Supervisor, Employee Resources, Central Research Division, Pfizer Inc, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

Central Research

The elements of success.
**Postdoctoral Research Associates**

The Agricultural Research Service, as the principal scientific research agency of USDA, conducts research to solve technical food and agricultural problems of broad scope and high national priority. The agency’s work is carried out under six specific research objectives—conservation of soil, water and air, plant productivity, animal productivity, commodity conversion and delivery, human nutrition and well-being, and integration of systems. Overall aim of ARS research is to ensure the continuation of an adequate supply of food and fiber of high quality to meet the needs of American people and for export.

ARS is currently recruiting for 50 postdoctoral positions throughout the United States. Opportunities exist in many research areas, including:

- Human Nutrition
- Genetics
- Immunology
- Virology
- Biochemistry
- Chemistry
- Microbiology
- Animal Science
- Entomology
- Plant Physiology
- Plant Pathology
- Agronomy
- Soil Science
- Engineering

Successful candidates will be hired initially for up to 2 years in duration. Salary for these positions $33,623 to $40,298 (higher in parts of CA and NY) will be based on qualifications and experience. There are some employment restrictions for non-U.S. citizens.

For written descriptions of positions and application procedures, write to:

J.M. Ruth  
Personnel Division (SC)  
USDA/ARS  
6305 Ivy Lane, Room 129A  
Greenbelt, MD 20770-1435  
or call:  
Julie Cypriano  
(301) 344-0101

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**PRODUCT SPECIALIST**

Applied Biosystems, a leading supplier of systems and tools for biotechnology research, is currently seeking a Marketing Professional. Based in the San Francisco Bay Area, you’ll enjoy the natural beauty and cultural benefits of Northern California.

Applied Biosystems is seeking an outstanding candidate to market innovative equipment for sample preparation. The position offers an exciting opportunity to join a multidisciplinary team including chemists, software engineers, molecular biologists and marketers working on a broad range of application areas including genetic mapping, genetic linkage, DNA sequencing, sample tracking and mutation detection. Responsibilities will include market analysis, marketing plans, and focus for worldwide communication concerning product development and promotion.

A BS degree in a biological science and 3-6 years’ molecular biology experience including research with this technology or similar product is required. An MBA is preferred.

We offer a competitive salary and generous benefits package. Please send your resume to: Applied Biosystems, Attn: Human Resources Ref. #1823, 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.

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**MARINE ENVIRONMENTAL CHEMIST**

The Marine Sciences Research Center of the University at Stony Brook invites applications for an anticipated tenure track faculty position in marine environmental chemistry, effective September 1, 1993. A Ph.D. is required. Preference will be given to candidates at the level of assistant professor. This position is affiliated with the Center’s Waste Management Institute. The Institute conducts basic and applied research on a spectrum of issues involving the management of municipal solid waste and waste disposal in coastal environments. Applicants should have an active research program in inorganic chemistry of aquatic/marine systems. Areas of interest include, but are not limited to the chemical stabilization of waste materials, fate and transport of contaminants in coastal waters and municipal solid waste treatment technologies. It is expected that the successful candidate will develop an active research program in accordance with the goals of the Waste Management Institute and will teach courses in his/her specialty. He/she will be expected to secure three months salary through external grants or contracts. Applicants should send a resume, statement of interests and names of at least three references to: Dr. J. Kirk Cochran, Marine Sciences Research Center, The University at Stony Brook, Stony Brook, NY 11794-5000

Deadline for application: April 30, 1993

The University of Stony Brook is an equal opportunity educator and employer. Women and minorities are strongly encouraged to apply.
Postdoctoral Positions
Biology and Biotechnology Research Program

The Biology and Biotechnology Research Program at the Lawrence Livermore National Laboratory has an expanding program to investigate the interaction of chemicals with DNA. This is part of a larger program to investigate the cancer and mutation risk posed by chemicals present in the diet and the environment. We currently have the following postdoctoral opportunities available.

Toxicology

We are seeking a postdoctoral fellow with a recent Ph.D. to work as part of an interdisciplinary team of biologists, biochemists and toxicologists, to study processes of DNA adduction and the use of DNA adducts as biomarkers of carcinogen exposure and effect. This position requires a Ph.D. in Biochemistry, Toxicology, Pharmacology or related field. Applicants having experience in 32P-postlabeling, analytical toxicology, pharmacokinetics, and/or animal handling will be preferred. Some experience with DNA chemistry, mass spectrometry and immunoassays is desirable. Appointments will be initially for two years with the possibility for a 1 year extension, depending on funding and project status. For further technical information contact Kenneth Turteltaub, Ph.D. Molecular Toxicology Group, (510) 423-8152 or FAX (510) 422-2282. Dept. #A93183Bl.

Molecular Toxicology

The Molecular Toxicology Group is inviting applicants for a 2-3 year postdoctoral position. We are looking for a synthetic chemist to work with a large multidisciplinary group studying the interaction of chemicals with DNA. The applicant should have a Ph.D. in Chemistry, Pharmacology or equivalent with a background in organic synthetic chemistry. Candidates with a specific background in DNA chemistry will be preferred. For further technical information contact Dr. James Felton, Molecular Toxicology Group Leader, (510) 422-5658 or FAX (510) 422-2282. Dept. #A93184Bl.

Interested applicants are invited to send their CVs including references and indicating appropriate Department number to: Phyllis Harding, Professional Employment Division, Lawrence Livermore National Laboratory, PO Box 5510, L-725, Livermore, CA 94551. U.S. citizenship preferred. We are proud to be an Equal Opportunity Employer. M/F/D/V.

University of California

Lawrence Livermore National Laboratory
POSTDOCTORAL POSITIONS IMMUNOLOGISTS
Available immediately at Vanderbilt University School of Medicine. Research involves design and development of new approach to vaccines. Training in immunology, lipid/ lipoprotein and/or protein chemistry, instrumentation, and/or cell biology. Send curriculum vitae and names of three references to: Dr. James P. Tam, Vanderbilt University, Department of Microbiology, M119 Medical Center North, 1161 21st Avenue South, Nashville, TN 37232-2363, U.S.A. Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in molecular neurobiology is available immediately to study regulation of proliferation and differentiation of neuroblasts. Research includes characterization of genes involved in transition from proliferation to differentiation. Job requires experience in molecular biology and cell culture. Please send curriculum vitae, statement of interests and names of three references by March 20, 1993, to: Howard Nornes, Department of Anatomy and Neurobiology, Colorado State University, Fort Collins, CO 80523. (Telephone: 303/491-5791; FAX: 303/491-7907).

POSTDOCTORAL POSITION VASCULAR BIOLOGY—LOCAL AGENT DELIVERY
Available immediately to investigate in vivo models of atherosclerosis and post-angioplasty restenosis with specific emphasis on vascular smooth muscle cells for local delivery. Research involves the mechanisms of restenosis as well as studies of placement of vascular cell-modulating agents into the vascular wall. Prior research experience with animal research is beneficial but not required. Competitive stipend and an opportunity to make important contributions are available. Contact: Dr. Keith L. March, Department of Cardiovascular Medicine, 111 West 10th Street, Indianapolis, IN 46202; Telephone: (317) 630-8257; FAX: (317) 274-9697.

POSTDOCTORAL POSITION—Available to study molecular basis of cellular resistance to oncogenic transformation. Neurotoxic effects on this system will also be examined. Please send curriculum vitae and three letters of recommendation to: Dr. Sheryl S. Smith, Department of Anatomy, Institute of Neuroscience, Hahnemann University, Broad and Race, Philadelphia, PA 19102—1192. FAX: 215-762-1982; Telephone: 215-762-4407.

POSTDOCTORAL POSITION. Available immediately to study oligosaccharides expressed by human skin cancers via immunological and biological techniques. The Institute has a cooperative, non-profit research emphasis with an impact on infectious disease and cell signalling, and is affiliated with the University of Washington. Send curriculum vitae and names of references to: Dr. F. Symington, Telephone: 206-284-8846, Seattle Biomedical Research Institute, 4 Nicholas street, Seattle, WA 98109. Equal Opportunity Employer.

POSTDOCTORAL POSITION to study endogenous cytokine concentrations and potentials in the rat colchicum model. The focus of the research is the endocrine regulation of inner ear fluid microhomeostasis. Candidates are required to have completed a Ph.D. and to have a good understanding of animal degree and experience. Please contact: Kyle E. Rabey, Ph.D., University of Florida Health Science Center, Department of Molecular Physiology and Biophysics, 100235, Gainesville, FL 32610-0235, USA. Telephone: (904) 392-3420; Facsimile: (904) 392-3305.

POSTDOCTORAL POSITION to study molecular aspects of pathogenesis of infection caused by Staphylococcus aureus. Approaches currently include use of glycoprotein-resistant mutants to study virulence determinants in the organism, mechanisms of glycopeptide resistance in staphylococci and characterization of the role of iron metabolism in experimental staphylococcal infections. Send curriculum vitae and names of three references to: Robert Daum, M.D., Professor of Pathiatrics, University of Chicago, 5841 South Maryland Avenue, MC0584, Chicago, IL 60637.

HARVARD SCHOOL OF PUBLIC HEALTH POSTDOCTORAL POSITION
Applications are invited for a postdoctoral position to investigate how cells respond to DNA damage. We have cloned bacterial, yeast, human and mouse DNA repair genes whose products prevent mutation and/or cell death. Our goals are to understand their in vivo roles and to further explore other pathways that protect cells against the effects of damage from chemical mutagens. Experience in molecular biology and biochemistry is required. Please send curriculum vitae and three letters of reference to: Dr. Leona D. Samson, Molecular and Cellular Toxicology, 665 Huntington Avenue, Boston, MA 02115. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available for candidates with (1) experience in molecular biology, to clone and study regulation of dioxin inducible genes in avian liver and (2) in signal transduction and lipid metabolism, to study dioxin actions in liver, epithelial and neuronal cells. Send curriculum vitae, names of three references and a statement of research interests to: Dr. Arleen Rifkind, Department of Pharmacology, Harvard School of Medicine, 1300 York Avenue, New York, NY 10021. An Equal Opportunity/Affirmative Action Employer, M/F/V.

STAFF AND POSTDOCTORAL POSITIONS
RATIONAL ENZYME REDISEIGN—Use MD simulations to study structure-function-dynamic relations of enzymes to propose experimentally testable modifications to alter enzyme specificity and efficiency in order to improve environmental biodegradation of recalcitrant pollutants, as well as other biotechnologically oriented objectives of interest to the U.S. Department of Energy.

PROTEIN-DNA COMPLEX SIMULATIONS—Use MD simulations to study protein-DNA complex structure-function-dynamic relations to better understand the basis for molecular recognition and induced-DNA lesion recognition/repair as well as gene regulation. Interaction with experimental collaborator and publications on molecular modeling and regulation in these systems. Send curriculum vitae and names of potential co-authors to: Drs. Charles L. Brooks III, Biochemistry, Box 1020, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6674. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available, spring 1993, to study the olivo-cerebellar circuitry using chronically implanted electrodes, synaptic techniques correlated with changes in motor performance, such as synchronized olivary oscillations, will be under investigation. Neurotransmitters and related agents on this system will also be examined. Please send curriculum vitae and three letters of recommendation to: Dr. Sheryl S. Smith, Department of Anatomy, Institute of Neuroscience, Hahnemann University, Broad and Race, Philadelphia, PA 19102—1192. FAX: 215-762-1982; Telephone: 215-762-4407.

POSTDOCTORAL POSITION available immediately for a postdoctoral fellow to study virulence factors synthesized by Salmonella typhimurium in vitro in an attempt to determine how cells contribute to inflammation, thrombosis, smooth muscle differentiation and/or proliferation in atherosclerosis and post-angioplasty restenosis. Previous experience in molecular biology, pathology, and/or cell biology is desirable. Send curriculum vitae and names of three references to: Dr. Josiah N. Wilcox, Drawer AJ, Department of Pathology, University of California, San Francisco, CA 94143-3022. We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION (NEUROSCIENCE) to work in CNS cellular electrophysiology; intracellular recording necessary. Fellow will investigate topics in excitability control of hippocampal neurons in slices using whole-cell voltage clamp and single-channel recording techniques. Salary commensurate with experience. Available approximately September 1993. Contact: Dr. John F. Alger, Ph.D., Department of Physiology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201, USA. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP. University of California/San Francisco General Hospital. A position is available immediately in a program to study the molecular mechanism of membrane fusion during secretion by human leukocyte immunoglobulin G (IgG). Focus is on the role of calcium-dependent membrane binding proteins (annexins) in reconstituting secretion in a permeabilized system. Applicants must have a Ph.D. and experience in general cell biology techniques and protein purification. Send curriculum vitae and names of three references to: Dr. Joel Ernst, Box 0868, University of California, San Francisco, CA 94143-0868. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS in endocrinology, metabolism, and diabetes for M.D. or Ph.D. graduates are available at Emory University School of Medicine in: oestebol signal transduction/gene regulation; sphingolipids and cell regulation; neuroendocrine neuropeptide neurobiology; molecular genetics of growth; protein determination. Send curriculum vitae, letters of reference, and NIH postdoctoral fellowship experience. Send curriculum vitae, letter of intent, and NIH postdoctoral fellowship experience to: Dr. Lawrence S. Phillips, M.D., Program Director, Emory University School of Medicine, 69 Butler Street, S.E., Atlanta, GA 30303. An Equal Opportunity Employer.

Two POSTDOCTORAL FELLOWSHIPS in atherosclerosis research (1) Focused on the role of lipoprotein lipase in stimulating molecular interactions of atherogenic lipoproteins with specific cell-surface proteoglycans (J. Clin Invest. 88:1300, 1991; J. Biol. Chem. 267:13284, 1992). (2) Focus will be the function of a cholesteryl esterase in hepatic and intestinal cholesterol and retinol metabolism (PNAS 86:6913, 1989; Atherosclerosis & Thrombosis 12:295, 1992). Techniques for both areas involve cell and molecular biology, including cell transfection and transgenic models. Position supported by NIH training grant with stipend supplementation. Must be U.S. citizen or permanent resident. Send cover letter indicating research interests and curriculum vitae with names of three references to either: Dr. Kevin J. Williams or Dr. Edward A. Fisher, Department of Biochemistry, 319 West Medical School Building, 1366 Medical Drive, Philadelphia, PA 19125; (FAX: 215-843-8849). Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS (2) are available 1 April 1993 to study fate of soil erosion and contami-nants in Maumee Bay, Lake Erie. Experience with HTLC, GC, and/ or AA is desirable. Send curriculum vitae, letter of interest and three letters of recommendation to: Peter Freligh, Biology Department, University of California, Santa Barbara, CA 93106. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP. A position is avail-able immediately for a postdoctoral fellow to study virulence factors synthesized by Salmonella typhimurium in vitro in an attempt to determine how cells contribute to inflammation, thrombosis, smooth muscle differentiation and/or proliferation in atherosclerosis and post-angioplasty restenosis. Previous experience in molecular biology, pathology, and/or cell biology is desirable. Send curriculum vitae and names of three references to: Dr. Josiah N. Wilcox, Drawer AJ, Department of Pathology, University of California, San Francisco, CA 94143-3022. We are an Equal Opportunity/Affirmative Action Employer.
Senior Research Investigator

Searle, a world-wide leader in the research, development, and manufacture of ethical pharmaceuticals, is seeking a Senior Research Investigator in our Cardiovascular Discovery Group who shares our vision of excellence.

The position's key responsibilities will be in conducting biochemical analysis of antipatelet/antithrombotic agents including supervising in-vitro screening of new compounds and development of studies using monoclonal antibodies and flow cytometry to further characterize compound and receptor interactions.

A Ph.D. in Biochemistry or related field and experience with receptor binding and enzyme studies is required. Applicants with flow cytometry experience and post-doctorate work in the field of platelets and integrin biology are preferred.

Searle offers a challenging, professional environment for career expansion as well as a competitive compensation and benefits package.

For consideration, please send your resume to: Searle, Human Resources, Dept. PB42, 4901 Searle Parkway, Skokie, IL, 60077. An equal opportunity employer M/F/H.

Maximize Your Recruitment Opportunities! Science 26 March 1993 Issue Bonus Distribution at Experimental Biology 93

Increase your visibility with special bonus distribution at the Experimental Biology 93 meeting to be held March 28-April 1 in New Orleans. Over 10,000 life sciences researchers worldwide will be attending this important meeting. Plus, your recruitment ad will be in direct contact with over 155,000 paid subscribers who read SCIENCE each week.

Don't miss this unique opportunity to penetrate this important market!

Call Janis Crowley at (212) 496-7704 to reserve your space today! In Europe call Annemarie Vis in England on +44-223-424-695

SPACE RESERVATION DEADLINE: TUESDAY, MARCH 9, 1993
DEAN OF THE COLLEGE OF SCIENCES AND ENGINEERING  
THE UNIVERSITY OF TEXAS AT SAN ANTONIO

The University of Texas at San Antonio invites applications and nominations for the position of Dean of the College of Sciences and Engineering. UTSA is a comprehensive public metropolitan university located on the edge of the Texas hill country, serving approximately 17,000 students. The city of San Antonio, which combines a rich cultural heritage with a modern emphasis on technology, research and education, is a dynamic multicultural environment with a population of over 1.5 million in the urban area.

The College of Sciences and Engineering has approximately 115 full-time equivalent faculty and 4,000 students in the disciplines of Biology, Chemistry, Geology, Physics, Computer Science, Mathematics, Statistics, and Electrical, Civil and Mechanical Engineering. In addition to twelve undergraduate programs and ten master's degrees offered by four academic divisions, the College has recently added a doctoral program in Biology with an emphasis in Neurobiology, the University's first free-standing doctoral program. Doctoral programs in Computer Science and Engineering are in the planning stages, complemented by a $10 million private fund campaign to support Ph.D. program development.

The Dean, who reports to the Provost and Vice President for Academic Affairs, provides dynamic academic and administrative leadership for the College. The Dean interacts with administrators to help create and implement a vision of the role of science and engineering within a metropolitan university. In addition to the Dean's state and national leadership, he/she also plays an active role in promoting science and engineering on the campus, in the surrounding community, and throughout South Texas.

The successful candidate must have an earned doctorate in one of the College disciplines, an outstanding record of ongoing research and teaching sufficient for the rank of tenured professor, and at least three years of successful academic administrative experience. The applicant must have the ability and demonstrated leadership skills to develop new doctoral programs and maintain high standards in existing programs. He or she must be committed to excellence in both teaching and research and to strategic planning as a means to innovate program development. The applicant's record must also demonstrate expertise in budget management, faculty recruitment and development, and performance evaluation in a research setting.

Other requirements include: the ability to assist faculty in seeking extramural research support; ability in private fund development and corporate relations; and the capacity to evaluate a broad spectrum of academic scholarship within the sciences and engineering. The candidate must have a record of effective working relationships with faculty, students and administrators, and have demonstrated the ability to communicate effectively with a culturally diverse campus and community. In addition, the applicant should have demonstrated success in recruiting and supporting women and minority students and faculty.

The position has a starting date as early as August 1, 1993, or a date as soon thereafter as practical, preferably no later than September 1. Salary is competitive and commensurate with qualifications and experience. Review of candidates will begin on April 1, 1993. Applications and nominations received after this initial deadline will be accepted and reviewed on a bi-weekly cycle as necessary until the position is filled. Candidates should forward a letter of interest, resume, and the names, addresses and telephone numbers of at least three references to:

Dr. Brenda J. Claiborne, Chair  
Search Committee for Dean of the College of Sciences and Engineering  
Office of the Provost  
The University of Texas at San Antonio  
6900 North Loop 1604 West  
San Antonio, Texas 78249-0603

The University of Texas at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Senior Staff Member for Scientific Affairs  
American Association of Pharmaceutical Scientists

Candidate will be responsible for providing leadership, direction and coordination for scientific efforts of the Association. He/she is expected to identify emerging key scientific issues and provide the Association's leadership with the foresight and direction that will put the Association at the forefront in dealing with these issues. She/he is expected to attain a recognized visible "presence" in Washington as a distinguished representative of this scientific membership society.

Candidate must possess an advanced degree in the pharmaceutical sciences or a closely related field. Experience in serving on scientific panels, committees, and task forces is desirable but not required. Service in a related capacity in which the candidate has functioned as a scientific spokesperson, briefed before legislative bodies, or handled contacts with the press or broadcast media is desirable. The successful candidate must possess the ability to articulate scientific concepts and subject matters to a wide audience, including the public and press; and must have demonstrated an ability to approach and resolve differences in a logical and fair manner.

Salary and position title commensurate with qualifications and level of experience. Send c.v. or resume to Chairperson of Search Committee:

Jerome A. Halperin, Executive Director  
United States Pharmacopeia  
12601 Twinbrook Parkway  
Rockville, MD 20852

*)

Mexico-U.S. Foundation for Science  
EXECUTIVE DIRECTOR

The Mexico-U.S. Foundation for Science, a binational private non-profit institution, was established in September 1992 with initial funding of $4 million, equally subscribed by the Governments of Mexico and the U.S., to promote scientific and technological research, cooperation and collaboration on problems of common interest.

The Executive Director position requires a knowledge of science and technology applied to research, education, and joint economic development of Mexico and the USA; Ph.D. or equivalent related to development such as natural or computer sciences, ecology/environment, economics, health or science policy; at least 5 years related experience, and demonstrated administrative, networking and fund raising ability. Must be bilingual. Relevant experience in both countries with binational, international or national organizations preferred.

Venue and Application Instructions  
Working location is Mexico City. Mexican and U.S. nationals may apply; salary and benefits will follow guidelines for senior official within the Mexican economy. The initial term is mid-1993 through September 1995. Applications by April 15, 1993 to:

Dr. Guillermo Soberón, Chairman, Board of Governors, Mexico-U.S. Foundation for Science, Avenida Contras 516, 40Piso, Col. San Jeronimo Lídice, México 10200, D.F. México.

NATIONAL RESEARCH COUNCIL  
U.S. REPUBLICAN  
NAS CIOM

Postdoctoral Position in Cancer Research

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has an immediate opening that involves the characterization of the role of byrosine phosphorylation in the mitogenic signal transduction pathways of tumor models in the in vivo setting. The work will be targeted to the development of predictive models that will enable an improved understanding at the in vivo biochemical level of the potential therapeutic effects of inhibitors of mitogenic signalling.

Requirements include a recent Ph.D. in cell biology, biochemistry, pharmacology or related discipline with research experience in the area of growth factor receptor function and associated signal transduction pathways at the biochemical and cellular level. Working knowledge of relevant molecular and cell culture techniques and willingness to work with small animals are essential.

Interested individuals should send their resume to Box JDM-PD85, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2900 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

PARKE-DAVIS  
People Who Care
**Challenging Scientific Opportunities**

LIGAND Pharmaceuticals, an acknowledged leader in the field of intracellular receptor technology, seeks to provide novel drugs for the treatment of human disease. Currently we are seeking to fill two Scientist positions.

**CELL BIOLOGIST/SCIENTIST**

This individual will establish a basic research program integrated with other members of the Oncology Group and will complement our ongoing studies on chemoprevention and chemotherapy.

Qualified individuals should be trained in cancer cell biology with emphasis on cancers of epithelial origin. Experience in establishing and evaluating in vitro models of cancer carcinogenesis, growth control and inhibition is desired. Additional expertise in one or more of the following areas will be given particular attention: primary cell culture, growth factors, cytokines, apoptosis, intracellular receptors, differentiation therapy, histochemical techniques, including immunocytochemistry and in situ hybridization. PhD and 2-4 years' postdoctoral experience required.

**CARDIOVASCULAR SCIENTIST**

This individual will concentrate on cardiovascular disease, with primary emphasis on a research program focusing on transcriptional regulation of HDL and LDL.

Qualified candidates should have a broad and basic knowledge of cardiovascular disease. Experience in establishing and evaluating transcriptional control of apolipoprotein metabolism, in vitro assays and models of lipid regulation, general techniques in molecular biology and biochemistry. Additional expertise in one of the following areas is desirable including, primary hepatocytes and hormonal control and molecular mechanisms responsible for HDL/LDL metabolism. PhD and 2-4 years' postdoctoral experience required.

LIGAND provides an exciting intellectual environment with modern research facilities. We offer a competitive salary and benefits package, a premier team of colleagues and ample opportunities to have scientific impact. Please forward your c.v. to: LIGAND Pharmaceuticals, Human Resources/Dept. CB, 9393 Towne Centre Drive, San Diego, CA 92121. EOE.

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**Senior Scientist, Pharmacokinetics**

Research and development is the foundation of our success. We're Schering-Plough Research Institute, an internationally respected pharmaceutical organization with over $4 billion in annual sales around the world. At present, we spend over $500 million annually in scientific research, and we plan to increase this amount almost 20 percent every year over the next five years.

In addition, in December 1992, we completed a new, $500 million drug discovery facility, providing our scientific professionals with the latest in technical resources.

Commitment of this scope means significant opportunities for research scientists.

We will double our R&D dollars within the next five years.

We are seeking a Senior Scientist to join our Department of Drug Metabolism and Pharmacokinetics; and to work in the areas of nonclinical and clinical pharmacokinetics, and collaborate with the Departments of Toxicology and Clinical Pharmacology to conduct nonclinical and clinical studies on investigational drugs. A PhD in Pharmacokinetics/Biopharmaceutics with 0-3 years of industrial/post-doctoral experience, excellent interpersonal and communication skills, and the ability to work both independently and as part of a multidisciplinary team, are essential.

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**Opportunities for Senior Scientists in Multi-disciplinary Research Program**

The U.S. Environmental Protection Agency (EPA) is seeking senior (GS-11/14) scientists with expertise in ecological monitoring and assessment to lead exploratory research activities for the national Environmental Monitoring and Assessment Program (EMAP). EMAP is an innovative, multi-agency program designed to estimate status and trends in the condition of our nation's ecological resources. Applicants should possess technical proficiency in terrestrial, freshwater, marine, and/or landscape ecology. Experience with ecological indicators, monitoring at regional and national scales, and/or multiple-resource integration is highly desirable.

Contracts management responsibilities constitute approximately 25% of the work in these positions. U.S. citizenship is required.

Positions for exemplary scientists will be located at EMAP's technical center in the Research Triangle Park area of North Carolina. EMAP-Center provides a stimulating research environment with many opportunities for scientists:

- **Access to area research universities and science facilities**
- **Interaction with the national and international scientific community**
- **Research support that allows senior scientists to remain active in their research fields**
- **Leadership role in an innovative ecological research, monitoring and assessment program**
- **Competitive salary**

Applications will be accepted through March 18, 1993. Please request applications from: U.S. Environmental Protection Agency Human Resources Management Division (MD-29) Research Triangle Park, NC 27711 Attn: Dorothy Carr - EMAP (919)541-3014

The U.S. EPA is an Equal Opportunity Employer.

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**Director—Center for the Management, Utilization and Protection of Water Resources**

Tennessee Technological University invites applications and nominations for the position of Director, Center for the Management, Utilization and Protection of Water Resources. This is a twelve month, tenure-track position at the rank of professor. Salary is negotiable. A Ph.D. in a discipline related to water resources is required. A distinguished record of research and publication, excellent communication and interpersonal skills, a record of promoting interdisciplinary research and working effectively with interdisciplinary teams, and a record of attracting and administering research funding are required. The Director, reporting to the Dean of Engineering, will be responsible for all aspects of the Center's operations which include assisting research teams and individuals in obtaining research funding; administering interdisciplinary research programs; interfacing with academic departments and centers, research and regulatory agencies, professional societies and industry, promoting educational opportunities for students; making budget decisions; and advancing the mission of the Center. Screening of applications will begin May 10, 1993, but the applicant pool will remain open until the position is filled. Submit letter of application, resume, a self-assessment in relation to position requirements and responsibilities, and five references to Dr. Karl Rajan, Chairperson, Water Center Director Search Committee, Box 5004, Electrical Engineering Department, Tennessee Technological University, Cookeville, TN 38505. Phone (615) 372-3398. TTU is an AA/EEO/ADA employer.
POSTDOCTORAL FELLOWSHIP IN PHARMACOKINETIC MODELING. Two-year postdoctoral position available June 1, 1993, for a highly motivated graduate with experience in pharmacokinetics and computer technology. Candidates with a strong background in statistics and math will also be considered. Individual will receive training and conduct physiologically based modeling with an active pharmacology research group. Please send resume, statement of interests and two letters of reference to: Dr. James V. Breckenridge, School of Pharmacy, University of Georgia, Athens, GA 30602-2356.

POSTDOCTORAL POSITIONS

POSTDOCTORAL RESEARCH FELLOWSHIPS available in respiratory neurobiology and sleep. Projects employ neural and neuropharmacologic method- ods including tract-tracing, immunofluorescence, receptor autoradiography, and in situ hybridization; molecular biology; systems electrophysiology and patch clamp techniques; chronic physiologic monitoring in animal models; and human research including radiologic imaging, behavioral assessments, and epidemiology. Training for two years is available July 1, 1993, for U.S. citizens or permanent residents with a Ph.D., M.D./D.V.M. or M.D. Interested candidates should write to: Dr. Allan I. Pack, Department of Neurology, University of Pennsylvania, 3401 Spruce Street, Philadelphia, PA 19104-4283 to obtain further details.

TULANE MEDICAL CENTER

TULANE REGIONAL PRIMATE RESEARCH CENTER

DEPARTMENT OF PARAZOLOGY

POSTDOCTORAL ASSOCIATE is sought to join a multidisciplinary group working on Lyme disease. The task is the molecular cloning of newly identified species of Borrelia burgdorferi. These agents are vaccine candidates. Please send curriculum vitae and names of three references to: March 31, 1993, to: Dr. Maria T. Phillips, Building F, Tulane Regional Primate Research Center, Covington, LA 70433. Tulane University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately to study neurotoxicity of organophosphate pesticides. Experience in developmental and neuronal neurochemistry and chemistry is desirable. Applicant must have access to high field, to interface with broad spectrum of methodologies including analytical, biochemical and neurobehavioral procedures. A Ph.D. in pharmacology/toxicology, neurobiology related field is necessary. Interested individuals should send curriculum vitae and names of three references to: Dr. Carey Pope, Division of Pharmacology and Toxicology, Medical University of South Carolina, Northeast Louisiana University, Monroe, LA 71209-4070. Northeast Louisiana University is an Equal Opportunity Employer, Applicant and members of minority groups are encouraged.

POSTDOCTORAL RESEARCH ASSOCIATE POSITION in the Laboratory of Cellular and Molecular Pharmacology of the Environmental Health Sciences (NIEHS), in Research Triangle Park, North Carolina, is available to study calcium regulation and its role in cell signaling with modern techniques of fluorescence microscopy and digital imaging. The successful candidate should have experience and demonstrated expertise in the following areas: techniques for studying calcium dynamics, identification of populations of intact or permeabilized cells using either radioactive calcium or fluorescent calcium indicators; microinjection of small mammalian cells, and use of flash photolysis of "caged" precursors in studies of single cells; digital imaging of calcium in single cells using ratiometric fluorochromes. The salary ranges from $42,000 to $48,000 per year, with the possibility of annual raises for the third year. Salary range is $30,000 to $45,000, commensurate with experience and qualifications. Please send one copy of letter of application, current curriculum vitae, and names of three references to: Dr. James Putney at 919-541-1420. For prompt consideration, please send letter, cv, three references to the above address. Salary range is $23,000 to $28,000 per year depending upon experience and qualifications. Please send resume, statement of current research interest and one letter of reference to: Dr. James Putney at 919-541-1420. For prompt consideration, please send letter, cv, three references to the above address. Salary range is $23,000 to $28,000 per year depending upon experience and qualifications.

CUTANEOUS BIOLOGY RESEARCH CENTER (CBCR) MASSACHUSETTS GENERAL HOSPITAL/ HARPERS MEDICAL SCHOOL TRANSGENIC–ES CELL CULTURE RESEARCH LABORATORY ASSOCIATE

A position as Research Laboratory Associate is available at a BCIRG Group. Responsibilities include ability to organize and supervise a transgenic and E5 cell culture facility. The individual should have an M.S. or a Ph.D. and/or proven ability to manipulate mouse embryonic cells successfully. Salary is competitive and commensurate with experience. Curriculum vitae, and names, addresses, telephone and FAX numbers of three references should be sent to:}

Paul F. Goettick, Ph.D.
Associate Director for Research
Cutaneous Biology Research Center
MGH.
Charlestown, MA 02129
FAX: (617) 726-4189

The Massachusetts General Hospital/Cutaneous Biology Research Center is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans and handicapped individuals are encouraged to apply.

POSTDOCTORAL ASSOCIATE VESTIBULAR PHYSIOLOGY

A position is available in a multidisciplinary group studying vestibular influences on motor and autonomic control. Experience using standard neurophysiological techniques in research is required, as well as knowledge of the names of three references to: B. Yates/V. Wilson, Laboratory of Neurophysiology, The Rockefeller University, 1230 York Avenue, New York, NY 10021; (FAX) 212/327-8530. An Equal Opportunity Employer.

A POSTDOCTORAL RESEARCH ASSOCIATE position is available for a recent Ph.D. to study molecular mechanisms controlling cell cycle and cell death processes. Applicants should have a strong background in molecular biology techniques including cloning, directed mutagenesis, and use of retroviral vectors. Send curriculum vitae with names of three references to: Dr. J. Houghton, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101; an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE to start immediately for Ph.D. MOLECULAR BIOLOGIST with experience in standard molecular biology techniques. This could lead to a faculty position. The research work is performed in a large, multi-disciplinary, salary and benefits are competitive. Apply to: D. J. Baylink, M.D., Jerry Pettis VA Medical Center (151), 11201 Benton Street, Loma Linda, CA 92357.

RESEARCH ASSOCIATE—Research of theafferent and efferent arterioles of the kidney, small blood vessels which control the function of the kidney and blood pressure. Research involves highly specialized techniques of microdialysing these vessels by hand (using forceps) and with glass pipettes to study how these vessels react, utilizing micropipetion of the vessel and microassay of renin. Required: M.D. in Medicine, 5 years experience in position offered or two years of experience as Resident Physician. Two years of experience must include work in microsurgery and research involving microdissection and microperfusion. Forty hours per week, 9:00 a.m. to 5:00 p.m.; salary: $33,345 per year. Must have legal authority to permanently work in the United States. Send resumes to: 7510 Woodward Avenue, Room 415, Detroit, MI 48202, Reference Number 68392. Employer paid ad.

RESEARCH ASSOCIATE—Parasitology with a strong year-long interest in the relevant experience. Ability to work independently. Experience with developing monoclonal antibodies against various epistles of a nonhuman protein. Dr. E. Perez-Llanes, M.D., FCP, F. Borrelli Research Foundation, 4120 3rd Avenue South, Birmingham, AL 35222. Equal Opportunity Employer committed to a smoke-free work environment.

ETH Zürich Institute of Plant Sciences Phytopharmacology

RESEARCH ASSOCIATE (Obesaresearcher) in Applied Entomology

We are seeking a creative and cooperative scientist with strong expertise and postdoctoral experience in host-plant-parasite interactions. Responsibilities include: (1) research together with graduate and undergraduate students on herbivore-parasitoid interactions including qualitative and quantitative assessments, (2) teaching and supervision of undergraduates, (3) designing experiments and evaluating results, and (4) writing reports and participating in meetings. Send curriculum vitae, publications and three references to: Prof. Dr. Silvia Dorn, Institute of Plant Sciences, Applied Entomology, ETH Zentrum, Clausiusstrasse 21, CH-8092 Zürich.

RESEARCH ASSOCIATE needed for research in plant molecular biology and plant biochemistry with a goal towards improving quality and quantity of plant products. Applicants should send curriculum vitae and a letter that code for enzymes in plant lipid biosynthesis by constructing and screening plant DNA libraries; sequencing of the cloned genes; and expression of cloned genes in transgenic plants. The cloned gene to change plant oil composition; analysis of plants to determine levels of enzyme activity and oil composition; responsible for communication of research findings via written and oral presentation in scholarly journals and scientific conferences respectively. Requirements: Ph.D. in Food Science. Degree specializing in plant molecular biology; two graduate courses in biochemistry. Three months experience in Food Science. Experience with DNA library construction and DNA sequencing techniques. Forty hours per week, 9:00 a.m. to 5:00 p.m.; salary: $30,735 per year. Application deadline is to: Jan Davies, JO# 1325899, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216. Must have proof of legal authority to work permanently in the United States.

BIOLOGIST. Dickinson College seeks applicants for a one-year sabbatical replacement position, preferably in Cell Biology. Teaching responsibilities include introductory and upper-level courses. Send curriculum vitae, statement of teaching and research interests, transcripts, and three letters of recommendation to: Dr. B. Jeffries, Department of Biology, Dickinson College, Carlisle, PA 17013-2896. Applications will be accepted until the position is filled, beginning 5 March 1993. Dickinson is a highly selective liberal arts college with an emphasis on innovative undergraduate science education. Dickinson is an Affirmative Action/Equal Opportunity Employer.

BIOCHEMIST/RESEARCH ASSOCIATE to conduct research on p53 functions as a tumor suppressor. Design and conduct experiments to study the mechanisms of p53 tumor suppressor activity and to participate in collaborative projects. Requirements: Ph.D. in Biochemistry with research emphasis on biochemistry and molecular biology. Demonstrated abilities in protein purification, phos- phorylation, site-directed mutagenesis, and transcription and virus preparation. Job location: Los Angeles. Salary: $31,400 per year. Send this ad and resume to job #ce5681, P.O. Box 269065, Sacramento, CA 95826-9065, no later than March 20, 1993.
Manager Health Services Research

The Management Decision and Research Center (MDRC) in the Health Services Research and Development Service (HSR&D) of the Department of Veterans Affairs is seeking a manager for its database coordination unit. The unit supports the MDRC in its programs of:

- organization and management research using clinical and administrative databases
- consultation to VA senior management and policy makers
- technology assessment
- information dissemination

The position is national in scope and provides outstanding opportunities for both research and consultation. As part of the MDRC management team, the individual would have a major role in the MDRC's development and in health care issues of national importance.

An outstanding background in health services research and use of large scale databases is required. Candidates should have an M.D., Ph.D. or equivalent degree. The position is located in Boston.

For more information, please contact:
Martin P. Charns, D.B.A., Director,
MDRC, VA Medical Center (152-M),
150 S. Huntington Avenue, Boston,
MA 02130; (617) 278-4433. An equal opportunity employer.

PROJECT LEADER

Ross Laboratories, a division of Abbott Laboratories and the leading manufacturer of pediatric and medical nutritional products, has an excellent opportunity for an experienced professional with a Ph.D. in Food Science.

Responsibilities include identifying formulations, manufacturing procedures and shelf stability characteristics of new medical foods. The selected candidate will be assigned projects with a high degree of technical responsibility, be expected to secure cooperation with outside vendors and sister divisions, as well as be accountable for the successful completion of project work. This individual will be an independent contributor to endeavors and must clearly communicate with technical and non-technical disciplines. Expertise in Food Science/biochemistry of proteins, lipids and carbohydrates, and the interaction of these ingredients in food matrices is required. Minimal travel is necessary. Industrial experience is preferred, but not needed.

Ross Laboratories offers an excellent compensation and benefits program in a smoke-free workplace. Qualified individuals should send their resume and salary history in confidence to: Manager, Division Employment, Dept. 1000.

ROSS LABORATORIES
Division of Abbott Laboratories, USA
625 CLEVELAND AVENUE
COLUMBUS, OHIO 43216
An Equal Opportunity Employer, M/F

POSTDOCTORAL SCIENTIST

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an exciting opportunity for a Postdoctoral Scientist to join its Gene Expression Sciences research team.


Requirements for this position include a Ph.D. in Molecular Biology or a related biological science and a strong background in recombinant DNA techniques (experience in yeast genetics is highly desirable). The candidate also should possess a proven record of scientific achievement as evidenced by publications in major scientific journals. SmithKline Beecham postdoctoral scientists are strongly encouraged to publish research findings.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package, as well as a stimulating and challenging work environment. For confidential consideration, please submit your C.V. and the names of three references to: SmithKline Beecham Pharmaceuticals, Senior Employment Administrator, #10532A, PO Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/DV.

SmithKline Beecham Pharmaceuticals
Challenging the natural limits.

Join Our Family.

One of Connecticut's leading health care systems, combining the resources and caring values of Saint Francis Hospital & Medical Center, Mount Sinai Hospital, and Blue Ridge Center, is seeking candidates for the position of

RESEARCH SCIENTIST

Bone Biology
Saint Francis Campus

Candidates will join our NIH-supported Bone Biology Laboratory, to work on molecular and cellular biology of the bone. Completion of a doctoral degree and a postdoctoral fellowship is required; with prior molecular and cellular biology experience. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine.

Interested candidates should send a resume and references to: Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105-1299

RESEARCH SCIENTIST

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results INC., Keith Jones, Employment Manager, CAREERSCAREERS IN SCIENCE: A LOOK AT THE FUTURE

The United States Environmental Protection Agency's Environmental Criteria and Assessment Office (ECAO) announces its intent to establish a collaborative research relationship with an educational institution by competitive cooperative agreement in the form of a University Partnership Research Agreement (UPRA). The duration of this UPRA will be 5 years, with an option for a single non-competitive renewal of up to 5 years subject to EPA review and finding of acceptable performance during the initial award. The approximate funding level will be $500K/year. The purpose of this UPRA is to provide long-term support for general environmental assessment projects to include ECAO indoor air research and risk assessment activities. Universities and other educational institutions are encouraged to submit a written request for the solicitation package if they are interested in, and capable of, providing support to ECAO scientists in 1) the assessment of environment pollutants, particularly indoor air pollutants and pollutant mixtures in accordance with standard EPA guidelines and emerging EPA methods, 2) the conduct of multidisciplinary indoor air research in the areas of engineering, exposure monitoring, toxicology, epidemiology and risk assessment, and 3) the organization and administration of international symposia or workshops to bring together experts from NATO countries to discuss state of the art methods and issues related to sampling, analysis and risk assessment of pollutants, particularly nonindustrial indoor air pollutants. The UPRA is likely to involve interaction with other organizations in the RTP, NC area that are currently supporting EPA indoor air risk assessment activities. No telephone requests for the solicitation package will be accepted. Written requests for the solicitation package should be mailed to "ECAO University Partnership Solicitation (MD-52), U.S. EPA, RTP, N.C. 27711." Completed proposals that respond to this solicitation package must be postmarked or received at this address on or before March 26, 1993. Any proposals that are postmarked or received after March 26, 1993 will not be considered. All cooperative agreement proposal packages will be evaluated by a panel of independent peer reviewers for scientific merit. An additional internal EPA review panel will evaluate the proposals for organizational capability, the extent and nature of the proposed collaborative relationship with ECAO, and relevance to ECAO's mission. Preliminary notification concerning award is expected in July or August, 1993.

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A sequel to last year's "Careers in Science" issue, this 62-page special section takes an in-depth look at career opportunities in science. Is industry the new route to success for scientists in the 90's? In a detailed overview, globalisation, the refocusing of R&D, and the need for versatility are among the trends examined to help answer this question.

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**SENIOR SCIENTIST-RECEPTOR BINDING**

The successful candidate will develop, validate and troubleshoot radioligand binding assays for various receptor systems. Selection criteria include a Ph.D. in Biochemistry/Pharmacology with industry or academic post doc experience conducting receptor binding assays and analyzing data using computer-aided data fitting programs. Cell/tissue culture experience preferred.

Located in Fort Worth, Texas, Alcon offers you both personal and career rewards, including competitive salary/benefits, relocation assistance and recreational, cultural and economic advantages indigenous to the Sunbelt. Please send C.V. to: Alcon Laboratories, Inc., Placement and Development, T1-3 (SS-RB), P.O. Box 6600, Ft. Worth, TX 76115.

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PANLABS, INC., a bioscience service company located in the greater Seattle area, is expanding its U.S. Laboratory.

**Ph.D. SCIENTIST Microbiology (Position #92-48)**

The successful candidate will have a thorough grounding in microbial physiology. Responsibilities include strain improvement and media optimization. Experience in optimizing production of secondary metabolites desired. Opportunity for individual to move into project management. Requires Ph.D. in Microbiology (2+ years of applicable experience), good communications skills and the ability to work in a team setting.

Submit resume/cv with the names, addresses and phone numbers of three references to:

PANLABS, INC.
Attn: Human Resources, #92-48
11804 North Creek Parkway South
Bothell, WA 98011
or FAX information to:
206-487-3787
(include Position #)

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**CANCER GENETICS RESEARCH**

The Bristol-Myers Squibb Pharmaceutical Research Institute is the R&D Division of Bristol-Myers Squibb, a worldwide leader in the discovery and development of pharmaceuticals. Currently, we have two research positions available in our recently established Human Genetics Laboratory. Research includes analysis of new candidate tumor suppressor genes in a variety of human tumors, and interactive research projects in cell biology, developmental biology and molecular biology.

- This position requires extensive experience with DNA sequencing. Individual will be responsible for managing a core sequencing facility that includes performing routine DNA sequencing using an ABI automated sequencer (experience with this technology is highly desirable), computer analysis of sequencing data, and management of sequence data. Ability to work independently is important for this position, as is the ability to work well with others. The opportunity to perform basic research in genetic changes occurring during tumorigenesis will also exist. Please reply to Dept. PRI/JW-49.

- This position will involve performing experiments on mutation of tumor suppressor genes in human tumors. Some experience with the following techniques required; southern and northern blotting, PCR, agarose and polyacrylamide gel electrophoresis, preparation of DNA from tissue and/or bacterial cultures, and basic micro biological techniques. Please reply to Dept. PRI/JW-49.

Please forward your resume with appropriate department number to: Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4000, Princeton, NJ 08543. Equal Opportunity Employer, M/F/H/V.

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**CANCER GENETICS RESEARCH**

The Bristol-Myers Squibb Pharmaceutical Research Institute is the R&D Division of Bristol-Myers Squibb, a worldwide leader in the discovery and development of pharmaceuticals. Currently, we have two research positions available in our recently established Human Genetics Laboratory. Research includes analysis of new candidate tumor suppressor genes in a variety of human tumors, and interactive research projects in cell biology, developmental biology and molecular biology.

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Please forward your resume with appropriate department number to: Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4000, Princeton, NJ 08543. Equal Opportunity Employer, M/F/H/V.
WILDLIFE BIOLOGIST, Sirenia Project, National Ecological Research Center (NERC), U.S. Fish and Wildlife Service, Gainesville, Florida. Position emphasizes understanding and protecting the health of the Sirenia (manatees). Knowledge of computer simulation models for estimation of population parameters, and radio telemetry and analysis of radio tracking data are important. A degree (Ph.D. preferred) with major study in biology, zoology, or related field plus strong background in statistics. Position will be filled at the GS-11 level ($32,423 per year). An Equal Opportunity Employer. Inquiries and requests for application materials should be sent to: Peggy Colby, NERC, 4512 McMurry Avenue, Ft. Collins, CO 80525. Telephone: 303-226-9398.

PHARMACOKINETICIST Ph.D.

Rapidly growing company specializing in drug delivery, CNS, and CV drug research seeks outstanding individual with experience in pharmacometrics, pharmacokinetics, and physiology, and in vivo animal research to work with a team on oral drug delivery. Strong supervisory skills essential. State-of-the-art research facilities located in southern Westchester County, New York. Submit résumé to: Human Resources—Research, Pharmaceutical Discovery Corporation, 7 Westchester Plaza, Elmsford, NY 10523.

THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS invites applications for the post of

MOLECULAR BIOLOGIST at the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture in Vienna, Austria.

Responsibilities: To assist in the use of molecular biological techniques in crop production and protection, with particular reference to crop problems in developing countries.

Requirements: Advanced university degree (Ph.D. or equivalent) in molecular biology. Knowledge of molecular biology. At least seven years of professional experience in molecular genetics of plants, including the use of nuclear techniques. Working knowledge of English, French or Spanish.

Benefits: The post carries a net salary per year (inclusive of a variable element for post adjustment) from US$63,146 to US$79,151 (without dependents) and US$67,928 to US$85,625 (with dependents). Other benefits of the International Civil Service.

Please send a letter of application and relevant documents to: Dr. A. Crabbe, Director, Recruitment and Employment, Food and Agriculture Organization of the United Nations, Rome 00100, Italy. Any fees to accompany applications are at the applicant’s risk.

ARGUMENTAL SCIENTIST

Regular full-time position at New Mexico State University’s (NMSU) Agriculture Science Center (ASC) at Alcalde, New Mexico. Assist in horticultural and agronomic field research at Center and on farms. MINIMUM QUALIFICATIONS: B.S. degree in horticulture or related field, M.S. preferred. Minimum of 1 year of related experience. Ability to do field research. Computer data analysis skills. Experience in operating small-scale farm machinery desired. A valid driver’s license. Ability to work well with others. Bilingual English/Spanish preferred. Submit letter of application, résumé, university transcripts, and names of three persons to: Forest Resources, 542-8356.

TERRESTRIAL ECOLOGIST (ZOOLOGY/BOTANY). Tenure-track position. Emphasis on vegetation structure and dynamics, environmental science, and geographic information systems. Position would involve teaching and publishing. Submit summary of teaching and research interests and vitae to: Dr. Steve Guinan, ASC, P.O. Box 159, Alcalde, NM 87511. Telephone: 505-852-4241. NMSU is an Equal Opportunity/Affirmative Action Employer.

COMMODITY INDUSTRY SPECIALIST (SCIENTIFIC INSTRUMENTS)

The International Trade Administration is offering a position as Program Manager for the Florence Agreement. Responsibilities include: Knowledge of scientific equipment including electronic and technical measuring equipment and skill in preparing technical writing and presentations. Will be involved with scientific publications to their credit. Benefits include: Government retirement system and tax deferred savings plan with 3-year vesting, group health and accident insurance, and various leave benefits. Must be a U.S. citizen. Submit SF-171 to:

U.S. Department of Commerce
ITA Personnel—Room 4808
14th St. & Constitution Ave, N.W.
Washington, D.C. 20230

Indicate announcement #93-51 in block #1 of page 1 of the SF-171. An Equal Employment Opportunity Employer.

SENIOR TOXICOLOGIST. Responsible for managing and performing regulatory toxicology studies for new pharmaceuticals and chemicals, acute through chronic, in all species. Participation in R&D projects a possibility. Seeking a Ph.D. in toxicology with 3 to 5 years of experience in a pharmaceutical or contract laboratory environment. Excellent oral and written skills is a must. Board certification would be a plus. Submit summary of qualifications, references, and salary history. Mail résumé or curriculum vitae to: Human Resources, Southern Research Institute, Frederick Research Center, 451 Aviation Way, Frederick, MD 21701-4756.

PART-TIME CONSULTING POSITIONS AVAILABLE: The Institute is conducting a global assessment of recent advances in the field of toxicology. The current focus is on China and is limited to research in the areas of animal/toxic plant toxins, neurotoxicology, toxins, synthetic toxins, and mutagenic toxins. Work involves evaluating current research in China. Travel/relocation not required. Flexible hours. Qualified applicants will possess Ph.D’s. and have recent work experience in China. Native language fluency is required. Foreign scientists on temporary visa status are especially encouraged to submit curriculum vitae and letter by May 15, 1993. Inquiries and summary of research/work experience to: Futura Institute, P.O. Box 2988, Laurel, MD 20709. Confidentiality is assured. The Futura Institute is an Equal Employment Opportunity Employer.

ELECTROPHYSIOLOGY POSITION—Division of Cardiology: Long Island Jewish Medical Center (LIJ) invites applications for research Electrophysiology position. Adjunct appointment at Hofstra University possible for qualified candidates. Doctored degree required. Successful candidate will have strong background in signal processing and computing, and background in bio-mathematical modeling or working knowledge of neural network theory and implementation. Ability to independently design and implement custom hardware and software, specifically for the simulation and processing of large amounts of data in new and innovative ways. Must be effective team leader and direct and oversee the research of several graduate students and postdoctoral fellows. Salary commensurate with qualifications and experience. Send résumé and three references to: Dr. Steven J. Evans, Director, Cardiac Electrophysiology, LIJ, Room 1215, New Hyde Park, NY 11042. Telephone: (718) 470-7333; FAX: (718) 343-9762. Long Island Jewish Medical Center is the Long Island Campus for Albert Einstein College of Medicine. An Equal Employment Opportunity Employer.

FOREST ECOCLOGIST

The University of Georgia, Warnell School of Forest Resources, is accepting applications for a 12-month, tenure-track position beginning as early as July 1993. The appointment will be made at the ASSISTANT PROFESSOR level. Candidates are expected to develop independent research and teaching interests and to publish appropriate graduate and undergraduate courses in forest ecology. Please submit curriculum vitae, statements of research and teaching interests, and three letters of reference to: Dr. Bruce C. Bongarten, Warnell School of Forest Resources, The University of Georgia, Athens, GA 30602. Telephone: (706) 542-8356. Closing date is April 15, 1993. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

OsteoArthritis Sciences, Inc. is a drug discovery company in Cambridge, Massachusetts. We are developing novel treatments for osteoarthritis (OA) and related osteochondral disorders, and are focused on developing novel therapeutic agents. The company is currently seeking a CREATIVE SCIENTIST to study protease mediated cartilage breakdown in OA. The successful candidate should have a Ph.D. in biochemistry or related field with extensive experience in protease research. Specific experience in cartilage metabolism is a plus. Send curriculum vitae to: OsteoArthritis Sciences, Inc., One Kendall Square, Building 200, Cambridge, MA 02139.
Research Scientist-Population Modelling

We are seeking an experienced and innovative scientist to research the population dynamics of commercially important temperate Australian fish populations, with a specific emphasis on evaluating and modeling the spatial structure of exploited marine populations. Specific approaches would include quantification of movement and mixing rates from tagging experiments, the analysis and development of fishery databases and the development and evaluation of management strategies including risk assessment. Initially, the appointee will play a major role in a multi-organisational research program on southern shark and in scientific and management discussions relevant to the fishery.

You will need a PhD or equivalent experience in quantitative zoology, fisheries biology, or similar, together with a strong background in mathematics, statistics and the development of mathematical and computer models for biological systems.

You should have a superior record of innovative research achievements and the capacity to communicate research findings to a wide variety of audiences.

The Project Leader, Dr John Stevens, can provide more information on the position, our selection criteria and career opportunities by telephoning +61-2-206 222, fax +61-2-240 530 or telex AA57182. The position is indefinite (tenured) and assistance with relocation costs is provided.

Please send applications addressing the selection criteria and including details of your qualifications and experience and the names of two referees, quoting Reference No FCS93/25C1 to: The Human Resources Manager, CSIRO Division of Fisheries, GPO Box 1538, Hobart, Tasmania, 7001, Australia by 16 April 1993.

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AUSTRALIA

Research Pharmacologist

Merck Research Laboratories, a leader in the discovery and development of pharmaceutical and biological products, is currently offering an excellent opportunity for a research pharmacologist in the Department of Cardiovascular Pharmacology.

The successful candidate will take major responsibility in the development of novel, therapeutic agents for the treatment of cardiovascular disease.

Candidates must have a Ph.D., M.D. or equivalent degree, successfully completed at least two (2) years post-doctoral training, and a strong record of achievement in cardiovascular research. Specific experience with in vivo pharmacological preparations, including primates, is highly desirable.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to: Personnel Manager, AD 0-D-4, MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EEO/AAN/Employer.

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GenPharm International

GENPHARM INTERNATIONAL is a leader in the field of transgenic animal technology. We are making significant advances in the development of human monoclonal antibodies from transgenic mice, creating opportunities to become involved at an early stage in this exciting new application.

You will lead a group performing in vitro characterization of novel therapeutic agents based on human-sequence antibodies produced in transgenic mice. Immunohistological characterization of human monoclonal antibodies will be a major part of the project, along with development of appropriate functional assays to select candidate antibodies. Additionally, you will play a major role in the investigation of B-cell development and immunoglobulin expression in transgenic mice.

The qualified candidate will be a highly motivated, team-oriented professional with a PhD in Immunology, Pathology or Cell Biology and 2+ years of related postdoctoral experience. You should be familiar with immunohistology, including human histology, and have some experience with T-cell immunology.

RESEARCH ASSOCIATES

Two positions are available requiring experience in hybridoma development or immunohistology.

GenPharm offers an excellent compensation and benefits package with stock option program. Please send your c.v. and the names of three references along with a cover letter to GenPharm International, Attn: Leslie Flint, 297 N. Bernardo Ave., Mountain View, CA 94043. EOE.

GenPharm International
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An exciting opportunity to participate in international clinical research.

The goal: To produce high quality documentation for New Drug Applications.

Hoffmann-La Roche Inc., part of the international Hoffmann-La Roche Group, has vacancies for individuals to take on major roles in our newly created U.S. Clinical Documentation Group.

**SENIOR CLINICAL DOCUMENTATION SPECIALIST/CLINICAL DOCUMENTATION SPECIALIST**

These highly-visible, key members of an international clinical project team will work closely with Clinicians and Biometricians, from phase I through phase IIb, providing input on the production, format and content of all NDA and related documents.

The successful candidates will have a Ph.D. or equivalent postgraduate research experience in a relevant scientific discipline. For the senior position, at least four years experience in pharmaceutical clinical research and development, including the preparation of IDBs, IND documentation and the clinical sections of NDAs is required. For the junior position, a minimum of two years post-doctoral or equivalent experience with a demonstrated clear, high quality writing style is necessary. The ability to critically review, synthesize and clearly explain complex technical data is essential for both positions. Some foreign travel is required.

We offer competitive salaries, a generous benefits package and significant opportunities for professional development. For consideration, please send a cover letter with your resume and salary history/requirements, indicating position desired, to: Ms. Lynn Harac, Staffing Dept. LH103CS, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199. We are an equal opportunity employer.

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The Coming School of Ocean Studies at the Maine Maritime Academy invites applications for a full-time position in Ocean Studies. The department offers a B.S. degree in Ocean Studies and has five faculty members with research and teaching interests in marine biology, geology, chemical and physical oceanography. A Ph.D. is desirable in oceanography or related field. Applicants should be interested in teaching at the undergraduate level and developing a research program that would involve undergraduates. Teaching experience is desirable. The successful applicant will be expected to teach introductory oceanography and basic chemistry to non-majors in addition to oceanography courses for ocean studies majors. Applicants with expertise in physical, geological, chemical or meteorological oceanography and related disciplines are encouraged to apply. Maine Maritime Academy is an ocean oriented college located on Penobscot Bay and has excellent facilities for ocean going work, including a deep water dock, 80-foot research vessel and numerous smaller craft. The department has technical support and a wide variety of equipment including CTDs, side scan sonar, ROV, biological sampling gear and assorted analytical equipment. Potential candidates should send letter of interest and resume to:

**Director of Human Resources**

Box C-3

Castine, ME 04420

Letters of interest, resumes or other relevant material not addressed or delivered to the Maine Maritime Academy Human Resources Office will not be considered. MMA is an EOE.

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**AWARDS IN THE BIOLOGY OF AGING**

Call for Nominations from The Gerontological Society of America

The Gerontological Society of America invites nominations for two awards given for research in the biology of aging. These awards will be presented at the Society's 46th Annual Scientific Meeting, November 19-23, 1993 in New Orleans, LA.

**The Glenn Foundation Award**

For significant research contributions in the biology of aging. A nominee's research contributions must be recent, original and provide a significant addition to the body of knowledge in the biology of aging. Any scientist, regardless of field and nationality is eligible for this award which carries a prize of $20,000. Nominations must include a nominee's vita; a two-page description of the research contribution to be recognized; reprints of up to five original, peer-reviewed publications based on the contribution; and two letters supporting the significance of the contribution to the address listed below. No self-nominations will be accepted.

**The Nathan Shock New Investigator Award**

For outstanding biological research in gerontology. Eligible candidates must have a Ph.D., M.D., D.D.S., or equivalent degree and must not be past the seventh postdoctoral year. Nominations should be mailed to the address listed below and must include a curriculum vitae indicating the year of the candidate's research, not to exceed 500 words; two letters of recommendation; and three reprints of relevant research papers authored by the candidate. This award carries a cash prize of $1,500. Nominations for both awards must be postmarked no later than May 7, 1993 and mailed to:

Biological Sciences Section Awards Committee
The Gerontological Society of America
1275 K Street, NW, Suite 350
Washington, DC 20005-4006

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**Hoffmann-La Roche**

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**Assistant Professorships in Pathology:**

**Yale University**

The School of Medicine is seeking two clinician/scientists (M.D., M.D./Ph.D.) for full time appointment at the Assistant Professor level. Successful candidates will develop an independent investigative program, participate in the teaching of graduate students, medical students, and residents, and contribute to collaborative investigations with other members of the research and clinical faculty. Applicants with demonstrated creativity, research productivity and training in molecular genetics, molecular oncology, biochemistry, or cell biology, and an interest in problems related to human biology are preferred. Board certification in Anatomic Pathology desirable.

Send current curriculum vitae, and the names of three references before March 30, 1993 to:

Joe S. Morrow, M.D., Ph.D., Professor and Chair, Department of Pathology, Yale University School of Medicine, 310 Cedar Street, New Haven, Connecticut 06510.

If you have submitted your curriculum vitae within the last 18 months, your application is on file.

Yale University is an equal opportunity, affirmative action employer. Minority and women candidates are urged to apply.

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Neose Pharmaceuticals, Inc., a rapidly growing biotech firm, is a leader in the discovery, synthesis and manufacture of oligosaccharide-based pharmaceuticals. Neose is located in Horsham, PA, a suburb of Phila.

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- Executive level Biochemist needed for top level mgmt position. Internationally recognized biochemist with 10+ yrs. experience in glycosyltransferase characterization, purification, and immobilization, OR similar level experience with natural glycoconjugates. (Dept. 48)

- Ph.D. level scientist will purify and immobilize enzymes. Promising scale-up experience beneficial. (Dept. 3B)

**CELL BIOLOGY**

- Ph.D. level scientist will use cell and tissue culture methods with anchorage dependent cells in adhesion studies. Experience in cell-cell and pathogen-cell adhesion assays required. Additional experience in microbiology and/or microbiology desirable. (Dept. 2C)

In addition to a competitive compensation package Neose offers a dynamic atmosphere where employees have the opportunity to participate in and benefit from the company's success. Address resumes to Personnel Manager, Neose Pharmaceuticals, Inc., 102 Wittmer Road, Horsham, PA 19044. EOE.
**Director of Meetings Program**

Cold Spring Harbor Laboratory, a respected leader in molecular biology and genetic research, is seeking an energetic Ph.D. scientist, with business and entrepreneurial skills, to coordinate the Laboratory's program of advanced scientific meetings. The program annually attracts 5-6,000 visiting scientists from leading research institutions, and is particularly well known for its annual Symposium on Quantitative Biology, now in its 38th year.

The Director of Meetings will head an experienced staff of 5 who handle registration and arrange for on and off grounds accommodations.

The successful applicant will coordinate both the scientific and business aspects of the meetings program and be excited by the challenge of expanding the range of subject matter and creating a year round schedule of meetings. Wide ranging interest in biology, writing ability and an enthusiasm for scientific communication are essential qualifications, as are business ability and strong entrepreneurial instincts.

We offer a competitive salary commensurate with experience, excellent benefits and a beautiful working environment located on Long Island Sound, 35 miles from New York City. For immediate consideration, please send resume, cover letter and list of three professional recommendations to: Merilyn Simkins, Personnel Manager, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, New York 11724-2215

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**RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY**

The Department of Biotechnology Research is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

**PROJECT LEADER, SEED-SPECIFIC EXPRESSION (JOB #1370)**

- The scientist in this position will be responsible for obtaining appropriate promoters for optimal expression of seed-specific genes in monocots and dicots. This individual will work closely with researchers involved in gene isolation and transformation to obtain optimally expressed genes in transgenic seed. **EDUCATION/EXPERIENCE:** Ph.D. or equivalent experience in molecular biology or biochemistry plus 3 or more years of relevant research experience. A good working knowledge of seed-specific expression is required. **CONTACT PERSON:** JANE BLACKETER

**SENIOR RESEARCH ASSOCIATE, PROTEIN EXPRESSION (JOB #1372-A)**

- The person in this position will have responsibility for the expression and purification of proteins for use in various projects in the department. Although expression in E. coli will fulfill most experimental requirements, use of other culture systems is likely. We are seeking a skilled and experienced individual to work closely with molecular biologists and biochemists to fulfill this role. **EDUCATION/EXPERIENCE:** MS in biochemistry or equivalent in related field plus 2 years directly related lab experience in protein expression and purification; or 4 years experience with BS degree. Familiarity with computers, good communication and organizational skills, and skill in project management are also required. **CONTACT PERSON:** JANE BLACKETER

**SENIOR RESEARCH ASSOCIATE, TRANSFORMATION TECHNOLOGY (JOB #1361)**

- We have an immediate opening for a highly motivated scientist to coordinate corn callus and suspension culture needs for the department. The responsibilities of this position will include culture initiation, development and maintenance; and, conducting experiments involving tissue culture, regeneration and transformation methods. This individual will interact closely with other labs working on transformation of agronomic genes for a variety of projects. **EDUCATION/EXPERIENCE:** MS degree in plant biology or equivalent experience plus 2 years directly related lab experience in corn callus and suspension culture initiation and genetic transformation; or, BS degree plus 4 years relevant experience. Familiarity with computers, good communication and organizational skills, and skill in project management are also required. **CONTACT PERSON:** JO ANN JORGENSEN

**RESEARCH ASSOCIATE, SPECIALTY OILS BIOCHEMISTRY (JOB #1371-A)**

- The person in this position will be part of a group who are isolating genes involved in the biosynthesis and metabolism of fatty acids. Applicants should have experience in molecular biology with additional skills in areas such as biochemistry and/or protein purification. **EDUCATION/EXPERIENCE:** BS degree or equivalent lab experience plus 2 years directly related experience; or MS degree. **CONTACT PERSON:** JANE BLACKETER

Applications received by APRIL 2, 1993 will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO (2) resumes and indicate in your correspondence the JOB #, the names, addresses and telephone numbers of three references to:

**PIONEER HI-BRED INTERNATIONAL, INC.**  
Plant Breeding Division  
Department of Biotechnology Research  
Attn: Contact Person JOB #  
P.O. Box 38  
Johnston, IA 50131-0038
POSIIONS OPEN

ASSISTANT RESEARCH SCIENTIST

NYU Medical Center has a position available for a recent Ph.D. with experience in molecular biology and immunology. Project: mode of action of immunosuppressive agents and gene expression in human T cells. Please send curriculum vitae to Dr. Maha Singh, Human Resources Department, NYU Medical Center, 550 First Avenue, New York, NY 10016. Resumes must be received by March 29, 1993. Equal Opportunity Employer, M/F.

ASSISTANT RESEARCH SCIENTIST

NYU Medical Center has a POSTDOCTORAL RESEARCH SCIENTIST position available in the laboratory of Dr. Julia Phillips-Quaglia and Dr. Daniel Meruelo for a recent graduate to clone the gene for a novel murine B cell IgA receptor and to study its structure, function and regulation. Ph.D. in molecular biology required. Send curriculum vitae and names of three references to: Maha Singh, Human Resources Department, New York University Medical Center, 550 First Avenue, New York, NY 10016. Curricula vitae must be received by March 29, 1993. Equal Opportunity Employer, M/F.

CELL/MOLECULAR BIOLOGIST

The Department of Biology at the University of Toledo invites applications for a tenure-track position as an ASSISTANT/ASSOCIATE PROFESSOR of Biology. The successful candidate will be expected to contribute to undergraduate and graduate instruction, and establish an independent research program which complements existing departmental expertise in the area of cell and molecular biology. Competitive salaries, facilities and start-up funds are available. Applicants should submit curriculum vitae, a brief description of research interests, relevant publications and arrange to have three letters of recommendation sent by April 1, 1993, to: Chair, Search Committee, Department of Biology, University of Toledo, Toledo, OH 43606. The University of Toledo is an Affirmative Action/Equal Opportunity Employer, M/F/D/V. Women and minorities are encouraged to apply.

CELL BIOLOGIST

Position available conducting basic and applied studies of novel antitumor agents using a variety of approaches with in vitro systems. Ph.D. in cell biology or microbiology, experience with epithelial tumor systems, knowledge of antitumor drug development and good writing skills required. Duties include divide project management, experimental design, and proposal/report preparation. Southern Research Institute offers a competitive salary and benefits package including supply, social curriculum vitae to:

Mr. G. Denise Johnson
Human Resources Representative
Southern Research Institute, Department 667
500 South P.O. Box 38305
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