POSITIONS OPEN

The Department of Surgery at Stanford University School of Medicine is conducting a search for an experienced academic leader in pediatric surgery to head the Division of Pediatric Surgery. Candidates should have been experienced academic surgeons with an appropriate record of clinical and laboratory investigation. The level of appointment may be at the ASSOCIATE PROFESSOR or PROFESSOR level, depending on the candidate's qualifications. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Interested applicants should write to: Chair, Department of Surgery, MSOB Room X-228, Stanford University School of Medicine, Stanford, CA 94305.

ASSISTANT PROFESSOR OF BIOLOGY. Tenure-track, academic year appointment commencing 26 August 1991 to participate in a quality undergraduate program. Teaching courses in immunology will be required as well as other classes in the incumbent's area of expertise. Preferred candidates will be given to individuals with specialization in the areas of epidemiology, parasitology, bacteriology, general biology, and in particular hematology, and the ability to advise medical technology students. Commencement of undergraduate research is required. Salary commensurate with qualifications.


CONSERVATION ECLOGIST ASSISTANT PROFESSOR

The University of Georgia's Department of Zoology, in conjunction with the Institute of Ecology, announces a tenure-track position for a conservation ecologist. The successful candidate will play a major role in a new graduate program in "Conservation Ecology and Sustainable Development" and should develop research and teaching programs in conservation and population ecology and natural history. Starting date is negotiable. To be considered, please send, by 17 May 1991, curriculum vitae, research plans, three letters of reference, and relevant reprints to: Chair, Conservation Search Committee, Zoology Department, University of Georgia, Athens, GA 30602. Telephone: 404-542-3310.

The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

CELL BIOLOGIST

The Department of Veterinary and Comparative Anatomy, Pathology, and Physiology, College of Veterinary Medicine, Washington State University, invites applications or nominations for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level. The duties of the position include: the development of a vigorous, independent research program employing modern methods of cell and/or molecular biology; involvement in graduate training; and participation in teaching veterinary cell biology, developmental biology, and/or microbiology. Area of research in the department include neurobiology, reproductive endocrinology, hemostasis, exercise, and cardiovascular physiology. Qualifications: Ph.D. and appropriate research experience. Rank and salary will be commensurate with qualifications. Earliest starting date is 1 September 1991.

Written applications must include curriculum vitae and the names, addresses, and telephone numbers of three references. Applications, nominations, or inquiries should be sent to: Professor R.B. Harding, Chair, Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology, College of Veterinary Medicine, Washington State University, Pullman, WA 99164-6520. Review of applications will begin 1 July 1991, and will continue until the position is filled.

Washington State University is an Affirmative Action/Equal Opportunity Educator and Employer.

POSITIONS OPEN

BIOLOGIST. Fall of 1991, ASSISTANT PROFESSOR, tenure track, to teach human life science and environmental science to nonmajors, and at least two additional courses in earth sciences, environmental science, immunology, or another course in area of expertise, complementary to our curriculum. Ph.D., commitment to excellent teaching required, preference to candidates with teaching experience. Send curriculum vitae, transcripts, and three letters of recommendation to: Dean B. Richardson, West Virginia Wesleyan College, Buckhannon, W.Va. 26201. Applications due 15 March 1991. You may call Dr. Katharine Gregg, Chair, Department of Biology, at 304-473-8124. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR VERTEBRATE BIOLOGY

Search continued. Tenure-track position available starting September 1991. Hollins College, a private 4-year liberal arts college for women, seeks a vertebrate biologist to teach undergraduate courses in general biology, comparative anatomy, embryology, and histology. Teaching load is two courses per semester. Experience in scanning EM is desirable. Accepted candidate is expected to develop a research program involving undergraduate research. Salary required. Commitment of time to undergraduate research is required. Salary commensurate with qualifications.


TRANSPPLANTATION IMMUNOLOGIST

LOYOLA UNIVERSITY OF CHICAGO

The Loyola University of Chicago cardiology transplantation program has an immediate opening for an immunologist to establish a heart transplant research program in transplantation immunology. A tenure track will be granted in the Departments of Medicine and Microbiology and Immunology. Rank: ASSISTANT OR ASSOCIATE PROFESSOR level. Candidates should have a Ph.D. and a record of established research in the areas of allograft rejection, transplantation tolerance, and/or allograft vascular rejection. Experience in scanning EM is desirable. Applicant must be willing to participate in graduate and medical students teaching. While the successful candidate is expected to obtain extramural funding, the salary is not dependent from grant funds. Please submit curriculum vitae, two copies of relevant papers, description of research goals, and three supporting letters to:

Maria Rosa Costanzo-Nordin, M.D.
Medical Director
Cardiac Transplant Program
Loyola University of Chicago
Maywood, IL 60153

UNIVERSITY OF CALIFORNIA SANTA CRUZ (UCSC)

The Santa Cruz campus of the University of California is seeking a FULL PROFESSOR in ENVIRONMENTAL TOXICOLOGY with an emphasis on aquatic systems, with an outstanding research record in one of the areas of (i) characterization, transport and fate of contaminants in surface or groundwater (particularly with a strong analytical expertise in trace analyses), (ii) microbial remediation, development of bioremediation technology, or (iii) ecotoxicology of natural systems. The appointee is expected to maintain an active research program and teach graduate and undergraduate courses. The appointee will be involved in several disciplines of toxicology. Depending upon training and research interests, the appointee will initially be a member of the Department of Chemistry, Earth Sciences, Marine Sciences, Biology or Environmental Studies. Rank: Professor I to V. Salary range: $43,000 to $72,000, commensurate with qualifications and experience. Ph.D. or equivalent in any of the above fields. Outstanding research and teaching record appropriate to the level of the appointment. Applications must include current vita, statement of research and teaching interest and experience, and names of four referees to: Environmen
tal Toxicology Search Committee, Institute of Marine Sciences, University of California, Santa Cruz, CA 95064, by 15 May 1991; please refer to position "UCSC #211-901" in your reply. Position available: fall of 1991. UCSC is an Affirmative Action/Equal Opportunity Employer.
VP/Senior Director, Biological Sciences

We invite applications for the position of V.P./Senior Director, who reports directly to the Senior/Vice President for Research and Development and leads our Biological Science groups (Cell Biology, Molecular Biology, Pharmacology and Enzymology) in drug discovery.

We seek an individual with more than 8 years of post doctoral experience, preferably including pharmaceutical industry experience, who has outstanding expertise and a record of highly productive achievement. Excellent leadership and communication skills are essential.

ImmuNoPharmaceutics is a growing development stage integrated pharmaceutical company based on antibody directed design technology for the cardiovascular and inflammation/immune regulation markets. We offer an exciting working environment, competitive salaries and benefits, equity participation and a highly desirable Southern California location.

Please send your resume in confidence to:


PHARMACEUTICAL TOXICOLOGIC PATHOLOGIST

Hoffmann-La Roche, an established international leader in the research and development of pharmaceutical products, has a challenging and rewarding opportunity on our general pathology team in the Department of Toxicology and Pathology.

You will participate in the preparation of protocols, supervise necropsies, conduct histopathologic examinations, generate pathology reports and co-author toxicology reports of preclinical drug safety assessment studies conducted according to the GLPs to be submitted to regulatory agencies in support of registration of new drugs. Also, conduct/collaborate in investigations to elucidate the nature of toxic/therapeutic effects of drugs; and enhance the managerial processes of drug discovery and development.

To qualify, you must be a DVM or MD Pathologist specializing in pharmaceutical toxicology/experimental therapeutics; and have a record of success in a multi-disciplinary environment.

We offer an excellent compensation, benefits and relocation package. Please send your resume, indicating present salary (those without this information will not be acknowledged), to: Mrs. Eleanor M. Malone, Staffing and Employee Services, Department EM0912R, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Biocides Formulation Chemist

A leading manufacturer of biocides, with laboratories in Europe and the U.S., has an immediate opening for a formulation chemist. The successful candidate will define and develop, to commercial introduction, a variety of biocide formulations for industrial applications. Applications of special interest include paint-film mildewcides, wood preservatives, and preservation of emulsions and metal-working fluids.

We are looking for a scientist with a B.S. or higher degree in chemistry or a related science. You should have at least five years of experience in formulating industrial biocides, and a record of technical success in product introductions. You must also be conversant with a broad range of commercially available biocide products and their active ingredients. Finally, you should have strong organizational and interactive skills necessary for effective collaboration with marketing groups and customers worldwide. This position may involve relocation to the U.S.

We offer a highly competitive salary and benefits program, including relocation assistance. Our staff enjoys modern research facilities and numerous resources for professional advancement. This position will enable you to develop new biocides technology with major commercial impact through innovative, open-ended research. For confidential consideration, please forward your resume to:

Ref. 46118
Paul Banfield
M. S. L. International
32 Aybrook Street
London W1M 3JU U.K.

OR

P.O. Box 65119
Washington, DC
20035-5119 U.S.A.

BEHAVIORAL SCIENTIST

NOVA PHARMACEUTICAL CORPORATION, a leading Research & Development company seeks a scientist who will be responsible for developing and performing behavioral tests in its CNS Research Division. Qualified candidates should have a PhD with 2+ years’ relevant experience (including supervision) with working knowledge of pharmacological principles, knowledge of anxiolytic, drug-discrimination and/or tests useful for identifying atypical antipsychotic medications is valuable as are excellent oral and written communication skills. Prior industry experience preferred.

NOVA PHARMACEUTICAL CORPORATION is a small and growing company providing a challenging work environment. We offer a competitive salary and benefits package which includes health (including prescription plan), life and dental insurance, profit sharing, 401(k) savings plan, stock options and relocation assistance.

For immediate consideration, please send your resume with salary history to: NOVA PHARMACEUTICAL CORP., Personnel, 91-004, 6200 Freeport Centre, Baltimore, MD 21224-6522. Nova is an equal opportunity employer offering a smoke-free work environment.
The Department of Pharmaceutical Sciences, College of Pharmacy & Allied Health Professions, at St. John’s University seeks to fill a tenure-track position at the assistant or associate professor level. Applicants must possess a Ph.D. Responsibilities include undergraduate and graduate courses as well as an active research program. Preference will be given to candidates with a background in cell biology, molecular biology, or pharmacology. The department possesses excellent facilities and all the necessary support services for research. Modern instrumentation, an AAALAC accredited animal facility, and tissue culture laboratories are available. The college provides a supportive environment for scientists beginning their career in basic research. Application letters with curriculum vitae, statement of research interests and names of three references should be sent to:

Dr. Armit Kapoor, Professor & Chairman, Department of Pharmaceutical Sciences, St. John’s University, Jamaica, NY 11439.

St. John’s is an Affirmative Action/Equal Opportunity Employer - M/F.

THE OHIO STATE UNIVERSITY

The Ohio State University is seeking applications and nominations for Vice President for Agricultural Administration and Executive Dean of the College of Agriculture. Major responsibilities include: serving as academic dean of the College of Agriculture, including the School of Natural Resources and the Agricultural Technical Institute, and administrative responsibility for the Ohio Agricultural Research and Development Center and the Ohio Cooperative Extension Service. Candidates should have academic experience and a record of administrative/leadership ability generally consonant with the complexity of a large land-grant university. The candidate must be qualified for tenured appointment at the rank of professor.

Nominations and letters of interest with pertinent supporting materials should be sent to:

Mr. Jerry H. Baker
Lamalie Associates, Inc.
3340 Peachtree Rd., N.E.
Atlanta, Georgia 30326

DEADLINE FOR APPLICATIONS: May 15, 1991 or until a desirable candidate is selected.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

THOMAS JEFFERSON UNIVERSITY

JEFFERSON CANCER INSTITUTE

Carlo M. Croce, M.D., Director

FACULTY POSITIONS IN IMMUNOLOGY. Several faculty appointments are currently available in the recently expanded Department of Microbiology and Immunology. We invite applications from new and established investigators for full time tenure-track positions at any academic rank. Individuals with strong research interests in any area of immunology will be considered. Investigators with research programs in Molecular Immunology are particularly encouraged to apply. The Department currently has research interests in transplantation immunology, autoimmune, immunogenetics, cell-cell interactions, neuroimmunology, immunoparasitology, tumor immunology, cytokines, and immunoregulation. The research environment is excellent and conducive for active interactions within the Department and with other members of the Jefferson Cancer Institute. The University itself is located in the vibrant historical downtown area of Philadelphia. Please send curriculum vitae, research plans, and the names and addresses of three references to:

Dr. Robert Kornfeld
Department of Microbiology and Immunology
Jefferson Medical College
1020 Locust Street
Philadelphia, PA 19107-6799

We are committed to a smoke-free environment
Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer

The Bioresearch Department of SmithKline Beecham Animal Health is seeking a Postdoctoral Scientist to perform investigative studies on infections by Borrelia burgdorferi in animals and humans. The specific area of research will focus on the immune response to infection, host/spirochete or tick/spirochete interactions of Lyme Disease or vaccine development.

The appointment is temporary full time for a period of two years and is part of a research agreement between SmithKline Beecham Animal Health and the Centers for Disease Control (CDC) in Fort Collins, CO. The successful candidate will work within the Division of Vector-Borne Infectious Diseases at the CDC in Fort Collins, CO.

Applicants should send curriculum vitae, including relevant reprints, and the names and addresses of three references to: Leonard W. Mayer, Ph.D., P.O. Box 2087, Fort Collins, CO 80522. An Equal Opportunity Employer M/F/H/V.

SmithKline Beecham
Animal Health
POSITIONS OPEN

BIOMOLECULAR NMR SOFTWARE R&D

By combining scientific rigor and programming excellence, the BIOSYM team is leading an effort in the field of computer-aided molecular design. We are currently developing an integrated system for elucidating molecular structures from NMR within BIOSYM’s molecular modeling environment. Applications range from multidimensional NMR data processing and analysis, semi-automated resonance assignment strategies, and refinement of molecular structure.

We have an opportunity for an innovative, creative scientist with experience in multidimensional homonuclear and heteronuclear NMR spectroscopy and protein and nucleic acids, as well as extensive programming skills. The individual selected will be responsible for designing software, writing, and implementing code within the BIOSYM environment.

A Ph.D. in chemistry, biochemistry, or physics, with expertise in NMR spectroscopy is required. Also required is experience developing and using 2D/3D NMR data processing and analysis software and using automated resonance assignment strategies in proteins and nucleic acids. Fluency in Fortran and "C", experience with UNIX, and graphic programming are desirable.

If you are interested in joining a progressive, scientific environment, send your resume, cover letters, and three letters of recommendation to: BIOSYM Technologies, Inc., 10065 Barnes Canyon Road, San Diego, CA 92121. Equal Opportunity Employer. M/F/H/V.

CTTGENETICS TECHNOLOGIST. The cytogenetics laboratory at the University of Southern California School of Medicine Genetix Network has an immediate opening available for an NCA-certified or eligible individual with a minimum of 1 year of full-time experience in clinical cytogenetics. Our laboratory is now in its third year of development and is growing rapidly. The genetics network is a well-established resource and provides diagnostic genetic services to the state of California and includes specialists in medical genetics, genetic counseling, and cytogenetics. This position represents an excellent opportunity to be part of a full-service facility. The location is in Los Angeles at 3245 W. 11th St.

Interested applicants should send resumes or call A. Dean Stock, Ph.D., Associate Professor Pathology/Laboratory Medicine, Director of Cytogenetics, University of Southern California, 1035 South Alton Way, Suite E, Los Angeles, 90033. The University of Southern California is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENCE: DIRECTOR of Center for Environmental Programs. The objectives of this 5-year program, which is funded by the Department of Energy and is sponsored by industry, is to focus on programs of immediate and lasting value and to conduct applied research in environmental science and technology. The director is responsible for organizing and directing the research activities of the Center. He/she is expected to have a Ph.D. in environmental science or a related field, with experience in the field of environmental science. The salary is commensurate with experience. Positions begin immediately. Send letter of application, curriculum vitae, and three letters of recommendation to: Dr. Howard Mielke Chair, Search Committee Center for Environmental Research Xavier University of Louisiana New Orleans, LA 70125 Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA SCHOOL OF PHARMACY

HEAD, DIVISION OF PHARMACOLOGICAL SCIENCES. The division consists of 16 full-time faculty and has a strong basic research orientation. Qualified candidates are invited to submit a letter of interest and vitae, and arrangements to have three letters of reference sent to: Professor Roy Curtis III, Chairman, Department of Biology, Campus Box 1137, One Brookings Drive, Suisun City, CA 94585-0297.

The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

KENYA FIELD DIRECTOR

THE SCHOOL FOR FIELD STUDIES (SFS)
The field program in wildlife management and conservation needs skilled, experienced leader for semester and summer programs. Fifteen to thirty highly motivated students earn full academic credit at spectacular field sites in Kenya. Advanced field experience, teaching, leadership, and organizational skills required. Annual base is up to $5,000 (including $5,000 room and board support). Send curriculum vitae and telephone numbers of three or more references to: KS Search, SFS, 16 Broadway, Beverly, MA 01915. Inquiries: 508-997-7777. FAX: 508-927-5127. SFS is an Equal Opportunity Employer.

DIRECTOR

SOUTH AFRICAN ASTRONOMICAL OBSERVATORY

Applications or nominations are invited for the post of director of the South African Astronomical Observatory (SAAO) which will become vacant when Professor M. W. Feast retires from this position. The SAAO is operated as a national facility by the Foundation for Research Development (FRD), a statutory body which also funds and promotes scientific research in other relevant univer-

sities. The base of the SAAO is in Cape Town (at the former Royal Observatory) and the main telescopes are at the SAAO site near Sutherland.

Interested applicants should send their letters of application or nominations to: The Director, SAO, P.O. Box 9, Observatory 7935, Cape, South Africa. Applications or nominations should be sent before 31 August 1991 to: The President, Foundation for Research Development, P.O. Box 2600, Pretoria 0001, South Africa, from whom details of the post can be obtained.

DIRECTOR

MOLECULAR DIAGNOSTIC LABORATORY DEPARTMENT OF MEDICAL GENETICS OREGON HEALTH SCIENCE UNIVERSITY

A faculty position is available for an M.D. or Ph.D. molecular geneticist with expertise in PCR diagnostics and Board certification or eligibility in biochemical/molecular genetics. This facility will complement a strong state-wide program in clinical genetics, well-established clinical genetics program at the University of Oregon, and an interdepartmental neuroscience program. The candidate will have a strong commitment to teaching and research and will be involved in the development of a state-of-the-art molecular genetics laboratory.

The position also provides the opportunity to participate in the Oregon Association for Medical Genetics.

Send resume and three letters of recommendation to: Dr. Ian Yendolow, Chair, Department of Medical Genetics, L-473, Oregon Health Sciences University, Portland, OR 97201. Telephone: 503-494-8392; FAX: 503-494-7664. Equal Opportunity/Affirmative Action Employer.

DNA CHEMISTRY FACILITY MANAGER. A position is available at Washington University in St. Louis for a qualified individual to manage the Biology Department's Integrated DNA Chemistry Facility. The facility houses a DNA synthesizer, HPLC, FPLC, fermenter, computing densitometer, radioanalytic scanner, and other advanced instruments for shared use. The primary responsibility will be to run the DNA synthesizer and to manage and facilitate the use of the other instruments by departmental researchers. The position also requires the preparation of a shift schedule, ordering of supplies, and the proper use of computers and other instruments. Experience with computer hardware and programming would be advantageous. To apply, send a letter indicating interest and vitae and arrange to have three letters of reference sent to: Professor Roy Curtis III, Chairman, Department of Biology, Campus Box 1137, One Brookings Drive, Suisun City, CA 94585.

Washington University is an Equal Opportunity/Affirmative Action Employer.

SCEINEC, VOL. 252
SAMUEL ROBERTS NOBLE FOUNDATION

PLANT BIOLOGY RESEARCH FELLOWSHIPS
NOBLE FOUNDATION - SALK INSTITUTE
JOINT PROGRAM

Applications are invited for two Noble Foundation Fellowships for post-doctoral research in Plant Molecular Biology. These Fellowships are a key element in a collaborative program between the Plant Biology Division, Noble Foundation, Ardmore, Oklahoma, directed by Dr. Richard A. Dixon, and the Plant Biology Laboratory, The Salk Institute for Biological Studies, La Jolla, California, directed by Dr. Christopher J. Lamb.

Research topics will be in the area of biochemical, molecular and genetic analysis of signal transduction pathways for induction of plant defense gene expression by elicitors and infection. The Fellowships are for three years beginning October, 1991. Eighteen months will be spent in each laboratory.

Please send resume and three letters of recommendation to: Dr. C.J. Lamb, The Salk Institute for Biological Studies, P.O. Box 85800, San Diego, CA 92186-5800. Telephone (619) 453-4100, ext. 106. Equal opportunity employer M/F/V/H.

Director of R&D
San Francisco Bay Area

Development Stage Pharmaceutical Company, developing small molecule anti-viral (HIV, Herpes) and anti-cancer NCEs, is looking for a Director of Research and Development with minimum 5 years of pharmaceutical development experience. Job requires experience with pharmaceutical project management functions and with the coordination of outside contract resources and academic collaborations. Familiarity with research on oncogenes, steroid-related receptors and/or other zinc finger containing proteins an asset. A Ph.D. degree and experience in medicinal chemistry, enzymology, pharmacology, virology or cancer biology would be most useful, although other backgrounds will be considered. Salary will be dependent on background and experience. Generous stock participation possible. Possibility to begin work on a part-time basis. Current San Francisco Bay Area residents favored. Please send resume to BioBridge Associates, Inc., 2160 St. Andrews Rd., Half Moon Bay, CA 94019.

DIRECTOR OF IMMUNOLOGY

A company recognized for the success of its research efforts, Marion Merrell Dow is also known for the quality of our scientific environment and career opportunities. Now, you can join us at our newly established Kansas City Center of Excellence in Immunology. The role of the Immunology Group will be to investigate basic mechanisms of immunology related diseases and to design therapeutic interventions in autoimmune diseases.

The Kansas City Center is looking for a world recognized scientist to develop and lead a diverse group of scientists in both basic and applied research endeavors in Immunology. The scientist will collaborate with other scientists in chemistry, pharmacology, and biochemistry located throughout the world at the various centers which comprise the Marion Merrell Dow Research Institute.

The ideal candidate will have a PhD with expertise in cellular and molecular immunology and at least 10 years post-graduate experience with demonstrated supervisory skills in the conduct and management of research. The candidate should also have a working knowledge of the drug discovery and preclinical development process as related to immunotherapeutics.

An international industry leader, Marion Merrell Dow Inc. is committed to ongoing major research efforts. We also offer an excellent compensation and benefits program including bonus, 401(k), and stock options for all scientists. Our Kansas City location provides an affordable, family-oriented, yet cosmopolitan quality of life. For consideration, please submit resume with salary history to: Marion Merrell Dow Inc., Staffing, Dept. SJI, P.O. Box 5627, Kansas City, MO 64134. An Equal Opportunity Employer.

POSTDOCTORAL SCIENTISTS

Molecular Biology

The Upjohn Company, a recognized leader in pharmaceutical research and development, currently has several excellent opportunities for Postdoctoral Scientists in our Upjohn Laboratories Division.

MOLECULAR VIROLOGY: Study the molecular mechanisms of herpes simplex virus morphogenesis and DNA replication with the goal of identifying novel targets for antiviral chemotherapy. The successful candidate will have experience and background in molecular biology, virology plus solid knowledge of standard protein biochemistry and enzymology techniques.

MOLECULAR RECOGNITION and PROTEIN BINDING: Develop and use epitope and random sequence gene libraries as a tool to study the molecular basis of bioaffinity interactions and as a source of novel recognition molecules for use as peptide mimetics, receptor probes, bioaffinity ligands, and templates for drug design. Experience/strong interest in the areas of receptor biochemistry, immunology or bioaffinity chromatography preferred.

For these positions, we are seeking highly-motivated individuals with a recent Ph.D. in a related discipline. Appointments are for one year, renewable for a second. The Upjohn PRS Program reflects our commitment to stimulate new scientific thinking, to provide an excellent training environment for our PRS scientists along with a very competitive salary and benefits package. Qualified candidates are invited to forward their CV and cover letter describing education, research experience, publications, interests, objectives and availability date to: THE UPJOHN COMPANY, CORP. RECRUITING/PRS PROGRAM 900659-019, 7000 PORTAGE ROAD, KALAMAZOO, MI 49001 USA. Refer to PRS Position Code 900659-019 in your correspondence. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...
**POSITIONS OPEN**

**DIRECTOR, CENTER FOR BIOLOGICS EVALUATION AND RESEARCH**

The Food and Drug Administration is recruiting for the director, Center for Biologics Evaluation and Research, located in Bethesda, Maryland. The position is in the senior executive service with a salary range of $87,184 to $162,221. The Center for Biologics Evaluation and Research, directs a staff of over 500 physicians, scientists, and support personnel engaged in research and development, regulatory, and operational activities. Knowledge of biologic products and blood and blood products is required. Applicants must have an M.D. degree from an approved medical school or a Ph.D. degree in a related field. Experience in biomedical, pharmaceutical, or physical science; experience with the innovation, research and development, production, risk, or benefit analysis, utilization, and regulation of biologic products and blood and blood products is desirable. You must be able to direct and lead a complex, diversified medical or scientific organization; effectively deal with key individuals in the federal and state governments, the medical and academic communities, professional and scientific organizations, consumer groups, and industry; and implement employment and career opportunities for minorities, women, and individuals with special interest groups. It is desirable that candidates have research or clinical achievements; demonstrated background in the clinical pharmacology of biologics, Biologicals, and blood and blood products; demonstrated background in biologicals and blood and blood products.

If you want to be considered, send curriculum vitae or SF-171, Application for Federal Employment, to: Eyjolfe Wood, Division of Human Resources Management, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20857.

**POSITIONS OPEN**

**FACULTY POSITIONS IN NEUROBIOLOGY**

**THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER**

The University of Texas Southwestern Medical Center at Dallas is establishing a Neuroscience Program, which will be housed in new research buildings now under construction in the new Biomedical Sciences Building. Neuroscience seeks applications for nine tenure-track positions at the level of ASSOCIATE, OR FULL PROFESSOR. Applicants must have a relevant Ph.D. or M.D. degree and at least 2 years of appropriate postdoctoral training, and show evidence of a firm commitment to a career in independent research. We are particularly interested in individuals who wish to apply the techniques of biochemistry, biophysics, electrophysiology, genetics, or molecular biology to fundamental problems in neuroscience. Responsibilities will also include teaching of medical and graduate students after the first year of employment. An applicant should send curriculum vitae, a brief description of present research, and a list of references or three letters of reference to:

Neuroscience Search Committee
Department of Pharmacology and Neurobiology
University of Texas Southwestern Medical Center
5323 Harry Hines Boulevard
Dallas, TX 75235–9039

*An Equal Opportunity/Affirmative Action Employer.*

**PEPPERDINE UNIVERSITY**

**FACULTY POSITION.** Animal cell biology or animal physiology. Applications are invited for a two-year term position to begin in late August 1991. Subject to budgetary considerations, the appointment may be extended to 12 months and may be converted to a full-time, tenure-track position in 1993. The visiting assistant position may be made at either the junior or senior level. The successful candidate will teach lecture/laboratory courses in biology for nonmajors and a course for majors, and have a Ph.D. or M.D. and a commitment to undergraduate teaching are required. The Department of Biology at Pepperdine University, Malibu, CA 90265, is an Equal Opportunity Employer.

**FACULTY POSITION UNIVERSITY OF CALIFORNIA, IRVINE**

The Department of Physiology and Biophysics invites applications for a faculty position at the ASSISTANT PROFESSOR rank or higher for research in cellular or molecular immunology. Applications will be accepted from candidates for the Ph.D. or M.D. or equivalent, and interest and experience in immunology at the cellular or molecular level, particularly in the characterization of autoreactive T cells, and molecular and cellular immunology related to pathogenesis of type I diabetes. Opportunities will be available for graduate and medical school teaching. Rank and salary commensurate with qualifications and experience.

The successful candidates will be expected to compete for and obtain research grants, and to provide leadership to the Bill and Melinda Gates Foundation for the study of mitochondria from the Alberta Heritage Foundation for Medical Research or the Medical Research Council, and will have 75% of their time protected for research. Deadlines and priority dates are determined annually. Information on the deadline and priority date will be sent to interested candidates. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Wisconsin has an Employment Equity Plan (EEP) designed to provide employment preference to qualified candidates, women, Aboriginal peoples, visible minorities, and people with disabilities.

In addition, applicants are expected to be involved in research and goals, and three letters of reference by 30 June 1991, to:

Dr. Ji-Won Yoon
Professor and Director
Julia McFarlane Diabetes Research Center
The University of Calgary
3530 Hospital Drive, N.W.
Calgary, Alberta T2N 4N1, Canada

**POSITIONS OPEN**

**FACULTY POSITION**

**MCDOUGALL MEDICAL SCHOOL**

Immediate opening for one senior or tenure-track position in the Department of Biochemical & Molecular Medicine. We are seeking an individual with an established record of excellence in genetic research to join our already diverse and successful group. Salary and rank will be commensurate with experience and scholarly achievement. The University of Calgary is an Affirmative Action Employer. To apply, forward a curriculum vitae, a list of publications, and names of three references to:

Dr. John M. Moxham
Chair, Department of Biochemical & Molecular Medicine
University of Calgary
2500 University Drive NW
Calgary, Alberta T2N 1N4

**MOLGENIC PSYCHOPHARMACOLOGIST**

Mayo Clinic/Mayo Medical School invites applications for a FACULTY POSITION in the Department of Psychiatry and Psychology, in close collaboration with members in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. The candidate should have primary interests in major psychiatric disorders and be pursuing these interests with the methods of molecular biology and/or molecular pharmacology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive salary and benefits. The rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae and names and addresses of three references to: Toshihiko Maruta, M.D., Chairperson, Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. *An Equal Opportunity/Affirmative Action Employer.*

**FACULTY OPENING**

**INSTRUCTOR:** Faculty of Department of Clinical Nutrition, University of Texas Southwestern Medical Center. Applicant must have Ph.D. and minimum of 1-year fellowship. The applicant must be trained in both human and molecular biology and have the ability to bridge the gap between molecular-based and physiological-based research studies in an area of cholesterol metabolism, experience with the use of dietary fat metabolism required, ability to perform DNA haplotype analysis highly desirable. Other responsibilities will include preparing curricula and teaching candidates in the Department of Clinical Nutrition and medical students in the Center of Human Nutrition. Participation in departmental and intradepartmental lectures and conferences will also required. Send inquiries, curriculum vitae, and cover letter to: Scott M. Grundy, M.D., Ph.D., Director, Center for Human Nutrition, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9035. Please do not telephone. *The University of Texas Southwestern Medical Center is an Equal Opportunity Employer.*

**INTERDISCIPLINARY (RESEARCH PLANT PATHOLOGIST/PLANT PHYSIOLOGIST):** Located at the U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station, Stoneville National Forest, Stoneville, Mississippi. Develops guidelines to minimize disease losses in intensively cultured and multi-use natural stands of loblolly pine. Works with plant pathology and system biology to assess monitoring systems and biological and chemical controls for hardwood declines, oak wilt in live oak, and other insect and disease damage. Salary range is from $44,348 to $58,008 per year, based on qualifications. Applicants must possess at least a master's degree. Contact: Dr. James Solomon or Dr. William High at 601-388-5890 or 601-388-3003. The USDA is an Equal Employment Opportunity Employer.
INDEPENDENT SCIENTIST

The Neurobiology Laboratory, part of the Neuroscience Branch of the National Institute on Drug Abuse, Addiction Research Center, wishes to enhance its efforts in elucidating molecular and cellular mechanisms relevant to addiction. Applicants should have an independent interest, proven with interests and expertise complementing existing programs in molecular pharmacology, molecular neurobiology, and neuroimaging. Individuals with expertise in: (i) protein biochemistry (e.g., defining activity-dependent post-transitional modifications of neuronal proteins or structure of drug receptors), and interest in establishing enhanced protein/peptide biochemical facilities; or (ii) cell biology (e.g., of drug neurotransmitter receptors and related second messengers) are especially encouraged to apply. The successful candidate will lead a unit or laboratory, depending on experience, with staff and resources available to take a leadership position in the field. Federal salary levels are competitive. M.D. and/or Ph.D. (biology, pharmacology) and U.S. citizenship required. Applicants are encouraged to apply to:

Brian Butters, Neuroscience Search Committee Addiction Research Center P.O. Box 5180 Baltimore, MD 21224

The ARC is an Equal Opportunity/Affirmative Action Employer, M/F/H/V, and is smoke- and drug-free.

PART-TIME LECTURERS, East/West Marine Biology Program. For 1991-1992 and future years, part-time faculty positions available fall quarter (at Friday Harbor Laboratories, Washington), to teach (i) marine birds and mammals, (ii) physiology, (iii) oceanography; winter quarter (Discovery Bay, Jamaica) (i) tropical terrestrial ecology, (ii) biology of fishes. Expenses plus stipend—research encouraged. Please send curriculum vitae and letter of interest with names of three references as soon as possible to: Dr. Trish Morse, Marine Science Center, Northeastern University, East Point, Nahant, MA 01908. (Code #200272).

Northeastern University is an Equal Opportunity/Affirmative Action/Employer.

LIPID BIOCHEMISTRY/MOLECULAR BIOLOGIST. Position is available in the Eicosanoid Biochemistry Workgroup of the Laboratory of Molecular Biophysics which studies trachidonic acid and linoleic acid metabolism by prostaglandin H synthase and lipoygenases. The research involves the application of biochemistry, chemistry, and molecular biology to the study of the structure, function, and expression of these enzymes. These studies require the knowledge and expertise in lipid and/or protein chemistry with experience in the biosynthesis of prostaglandins and related lipids. Some expertise in molecular biology desirable. General requirements: Applicants must have a Ph.D. or equivalent degree in biochemistry, cell biology, molecular biology, physiology, pharmacology, or closely related field, and show evidence of ability to carry out independent research. Candidates with up to 6 years of postdoctoral research experience will be considered. For more information, contact: Dr. Thomas E. Eling at 919-541-3911. For prompt consideration, send cover letter indicating area of interest, curriculum vitae, and three letters of reference by 20 May 1991 to: Mr. Bruce Wiggins (Code HNV30), National Institute of Environmental Health Sciences, P.O. Box 12233, Research Triangle Park, NC 27709. NIH is an Equal Opportunity Employer.

LABORATORY SCIENTIST III. Full-time position in the nutrition laboratory is available at the University of Maryland Eastern Shore (UMES), Princess Anne, Maryland. Applicants must have knowledge of field and desire to conduct research in the areas of nutrition and dietetics. Ph.D. preferred. Will consider lower degrees with research experience. Starting salary is $25,937 per year. Letters of application, including three letters of reference and curriculum vitae, should be sent to: Director of Personnel, University of Maryland Eastern Shore, Princess Anne, MD 21853. Closing date for applications is 15 April 1991. Candidates should be prepared to demonstrate that they may legally accept employment in the United States. UMES is an Affirmative Action/Equal Opportunity Employer.

Hahnemann University

DEAN OF THE GRADUATE SCHOOL AND VICE PRESIDENT FOR RESEARCH

Hahnemann University invites nominations and applications for the position of Dean of the Graduate School and Vice President for Research.

THE UNIVERSITY

Hahnemann University is a modern, progressive health sciences institution located in dynamic, center city Philadelphia. Hahnemann is comprised of the School of Medicine, the Graduate School, the School of Health Sciences and Humanities, and Hahnemann Hospital, a 616-bed tertiary care center. Approximately 2000 people are involved in the regulation of the schools of the university, with over 500 candidates for advanced degrees enrolled in the Graduate School. The Graduate School offers advanced degrees in 20 basic science and clinical programs, with doctoral degrees awarded in 12 distinct areas. The Graduate School Faculty currently number more than 225 individuals, and sponsored research funding for the institution has recently progressed beyond $14 million.

THE POSITION

The Dean of the Graduate School and Vice President for Research serves the University in dual capacities. As Dean of the Graduate School he/she reports to the Senior Vice President and Chief Academic Officer and is expected to contribute dynamic leadership in fostering excellence in graduate education as well as facilitating the recruitment of outstanding faculty and students. The Dean of the Graduate School is also expected to provide central leadership in the administration of Graduate School programs planning as well as articulating and facilitating relationships between the Graduate School and the other two schools of the University. As Vice President for Research, this individual serves in a staff capacity to the Senior Vice President and Chief Academic Officer. It is anticipated that the Vice President for Research will function in a leadership and advisory capacity to the Chief Academic Officer regarding all aspects of research, coordinating efforts within the University, as well as between the University and external organizations both public and private. In both capacities of the position, it is expected that this individual will function in integrative relationships with others in leadership positions throughout the Hahnemann Hospital and University.

QUALIFICATIONS

Candidates should present with a distinguished record of academic leadership experience, preferably at the graduate level, and a demonstrated ability to function effectively with faculty, students, alumni and other central administrators in the University. An equivalent experience in industry would also qualify the candidate. Each candidate should demonstrate extensive administrative experience in graduate education and research, characterized by a scope and level of fiscal complexity consistent with the responsibilities of the current position. An earned doctorate in an appropriate area of science or medicine is required, as is a consistent record of accomplishment in sponsored research funding. In addition, a proven record of success in relating to governmental and private funding agencies and leadership experience in large collaborative interdisciplinary research programs and proficiency in interpersonal communication and public relations skills are highly desirable. The candidate must also be capable of achieving appointment as a tenured full professor in one of the academic departments at the University.

APPLICATION OR NOMINATION

Appointment of the new Dean and Vice President will take place on or about July 1, 1991. Applications should consist of a letter of interest, curriculum vitae, and the names and addresses and telephone numbers of three to five professional references. Letters of application or nomination should be forwarded as soon as possible to:

Dr. Leonard R. Derogatis
Chair, Search Committee for Graduate Dean & Vice President
HAHNEMANN UNIVERSITY
Broad & Vine Street
Philadelphia, PA 19102-1192
Fax Number: 215-448-7301

Hahnemann University is an Equal Opportunity, Affirmative Action Employer and invites and encourages applications from women and minorities.

19 APRIL 1991

HNN 8125 4/19/91 2:25:00 PM

Hahnemann University
POSITICIONES OPEN

The Department of Ecology and Evolutionary Biology at Rice University seeks to fill a staff position as LABORATORY COORDINATOR to develop and implement introductory and advanced laboratory courses on undergraduate courses in ecology, behavior, evolution, and organismal biology. Experience with educational computing, including classroom management, is especially sought. Advanced degree required. Interested applicants should send a résumé and three letters of reference to: J. M. Smith, Employment Office. P.O. Box 2666, Houston, TX 77252 by 15 May 1991. Rice is an Equal Opportunity/Affirmative Action Employer, M/F/V/H.

PLANT PHYSIOLOGICAL ECOLOGY. One year, sabbatical replacement position at Idaho State University. Teaching responsibilities include undergraduate physiological ecology and graduate environmental physiology (both team-taught), plant ecology, and general ecology. Send résumé, letter that addresses preparation for teaching responsibilities, and names of three references to: William Kidd, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209. Application materials should be received by 13 May 1991; but position will remain open until filled. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION. Available starting July 1991 to study mechanisms of vascular regulation and endothelial cell function in vivo with special emphasis on eicosanoids, EDRF, oxygen metabolites, and cyclic GMP. Background in microcirculatory technique and vascular smooth muscle work preferred. Minimum duration 2 years. Individuals with previous postdoctoral experience are encouraged to apply. Salary competitive. Applicants should send curriculum vitae, reprints if any, and names of three references to: Gabor Kaley, Ph.D., Professor and Chairman, Physiology Department, New York Medical College, Valhalla, NY 10595. Telephone: 914-993-4089. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study expression and function of Drosophila neural peptides. Several Drosophila neural peptides from an important neural peptide family present in both vertebrates and invertebrates have been identified. Research projects will involve study of the expression and function of these peptides utilizing biochemistry, genetics, and molecular biology techniques. Candidates should have a Ph.D. with training in biochemistry, Drosophila genetics, or molecular biology. Please send curriculum vitae and names of three references to: R. R. Nichols, University of North Carolina Building, Ann Arbor, MI 48109-1048. Telephone: 313-764-4467. FAX: 313-747-0884.

DEVELOPMENTAL NEUROBIOLOGY

Two POSTDOCTORAL POSITIONS are available to study cellular and molecular mechanisms of neuronal differentiation in mammalian sensory systems. Projects include investigations of (i) sensory transmitter plasticity, (ii) regulation of growth factor responses, and (iii) neuron-target interactions using tissue culture, biochemical, molecular, and immunocytochemical methods. Case Western Reserve University has a large and highly interactive Department of Neuroscience with particular expertise in cellular, developmental, and molecular neurobiology. Functions for these positions is above the National Institutes of Health stipend level. Please send résumé and names of three references to: Dr. David M. Katz, Department of Neuroscience, Case Western Reserve University School of Medicine, 2119 Abington Road, Cleveland, OH 44106.

POSTDOCTORAL POSITION

Research in human genetics, involving new fluorescence probe technologies for gene mapping and investigation of genetic disease and chromatin organization. Experience and/or commitment to human genetics preferred. Opportunities for independent and collaborative research, available immediately. See Science 249, 928 (1990); Cell 77, 493 (1994). Send with three references to: Dr. Jeanne B. Lawrence, Department of Cell Biology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655.

POSTDOCTORAL POSITION

Available summer 1991 for investigation of cellular/molecular mechanisms of neurodegenerative diseases. Laboratory utilizes an interdisciplinary approach to study of an inherited disease associated with chronic alcohol abuse and aging. The position is within a program of research in several areas including biology, neurophysiology, pharmacology, synaptic plasticity, and trophic factors. Curriculum vitae and two letters of recommendation should be sent to: Bruce E. Edwards, PhD, Department of Neuroscience, JHMMC Box J-244, University of Florida, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study pathophysiological mechanisms in immunologically related diseases. Experience with cell culture, immunossays, hybridoma technology, and/or prostaglandin chemistry desirable. Salary is $21,000 to $23,000 for the first year. Evaluation will begin 15 May 1991 and continue until a candidate is selected. Send curriculum vitae and three letters of reference to: Dr. Neal S. Rote, Department of Medicine, Oklahoma University College of Medicine, 45435. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A position is available immediately to study the molecular biology of proteins involved in the transfer of lipids among plasma lipoproteins. Research in progress focuses on regulation of expression of the gene encoding cholesterol ester transfer protein in a variety of cell types. Experience in molecular biology is necessary. Please forward your curriculum vitae and two letters of recommendation to: Samir Deeb, Ph.D., Division of Medical Genetics, RG-25, University of Washington, Seattle, WA 98195. FAX: 206-543-3169. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

An interdisciplinary team, working with an investigator with experience in both molecular biology and immunology, is seeking individuals to collaborate on a project to study the role of an autoantibody specific for the molecular biology of β cell autoantigens and the abnormal immunoreactivity restricted by HLA-associated molecules. Send curriculum vitae with names of three references to: Dr. Bruce E. Edwards, PhD, Department of Medicine, RG-20, University of Washington, Seattle, WA 98195. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

Argonne National Laboratory has an opening for a fisheries biologist/ aquatic ecologist. The successful candidate, working with an interdisciplinary team, will be responsible for investigating the effects of daily dam operations on the native fishes, benthos, plankton, aquatic habitats, and water quality of the upper Colorado River. Qualifications are a Ph.D. in fisheries biology or aquatic ecology, with experience in assessing habitat requirements (including instream flow requirements) of fish. Experience with HSI, HEP, and IFIM preferred. Please submit curriculum vitae, three names and addresses of three references, and a personal statement of qualifications and research interests by 15 May 1991, to: Susan Walker, Box J-112-Postdoc-55, Employment, Argonne National Laboratory, 9700 South Casa Avenue, Argonne, IL 60439. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A postdoctoral position is immediately available to study the molecular biology of Chlamydia trachomatis. Relevant experience in research in molecular biology, immunology, and pathology is desired. Send curriculum vitae and names and addresses of three references to: Luis M. de la Maza, M. Ph.D., Professor of Pathology, Medical Sciences I, University of California, Irvine, CA 92717. An Equal Opportunity Employer.

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to: FAX NUMBER: 202-682-0816
Research Associate
Immunobiology

Genentech, a leader in the biotechnology industry, is seeking a Research Associate for our Immunobiology department.

Within this department, you will join some of our exciting research to develop therapeutics for human disease. A strong background in molecular biology including at least 3 years' research experience is required. Experience in cell culture and receptor binding is desirable.

Our progressive company offers an exceptional compensation and benefits package and the opportunity to make a significant contribution to our organization. For immediate consideration, please send your resume to Genentech, Inc., Human Resources Dept. YSAA, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment.

Genentech, Inc.

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A TIME FOR
ACHIEVEMENT

The opening of Glaxo Inc.'s $350 million Girolami Research Center in Research Triangle Park, NC represents our continued commitment in the pharmaceutical industry to the discovery of drugs for unmet patient needs. Scientists engaged in Glaxo's expanding research and development programs at the Center have a premier facility in which to work. The following opportunity is now available:

INTRACELLULAR RECEPTOR BIOCHEMIST
Cellular Biochemistry Department

We are seeking a Receptor Biochemist to establish a laboratory focusing on cellular regulation via the modulation of intracellular hormone receptor activity. The laboratory will function as one unit of interdisciplinary teams in the therapeutic areas of cancer and metabolic diseases.

The successful candidate should have a Ph.D. in Biochemistry or related area of study with at least two years of postdoctoral experience. A strong background in in vitro receptor biochemistry and an interest in related therapeutic areas is required, as is the ability to establish fruitful collaborations with other laboratories with similar therapeutic targets.

Our Research Triangle Park, NC location (near Raleigh, Durham and Chapel Hill) is unequalled for people who seek a well-rounded lifestyle. This world-famous scientific, industrial, and academic community affords access to respected universities, beautiful residential areas, major retail centers, excellent health care and abundant cultural and recreational facilities. Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction.

Send your resume, including salary history, to: Human Resources Department, Job #9126B142-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.
**THE INTERNATIONAL RICE RESEARCH INSTITUTE**

**Position Announcement for**

**PROGRAM LEADER, RAINFELL LOWLAND RICE PROGRAM**

The International Rice Research Institute (IRRI), a member of the Consultative Group on International Agricultural Research (CGIAR), is a nonprofit autonomous organization engaged in research and training in rice-related technology. Its goal is to enhance rice production and sustainability to benefit the world’s 1.3 billion people who are dependent on rice for their livelihood and as their basic food. IRRI seeks a Program Leader for its Rainfed Lowland Rice Program who will work with interdisciplinary teams of scientists from the biological, physical, and social sciences.

**Responsibilities:**
- Conduct and lead research on major production issues of Rainfed Lowland Rice.
- Provide leadership to the overall planning and administration of IRRI’s Rainfed Lowland Rice Program.
- Participate actively in the implementation of IRRI’s Five Year Work Plan and identify new research priorities.
- Support project coordinators, and determine with them the human, financial, and physical resources needed to implement research projects, and ensure program balance.
- Monitor, review, and evaluate research and project budgets and take corrective action when necessary.
- Coordinate program reporting through annual reports, reviews, and other mechanisms.
- Provide dynamic leadership at key sites and within the research consortium for rainfed lowland rice in collaboration with national programs.

**Qualifications:**
- PhD in biological sciences, preferably in agronomy.
- Experience in coordination and management of science (vision and leadership capability).
- Experience in rice, particularly in Asia, is highly desirable.
- Excellent ability to speak and write in English.
- Proven scientific capability as evidenced by publication record and other scientific contributions.

**Salary and Perquisites:**
Salary and perquisites will be commensurate with those of similar international institutions and programs in agriculture. The person chosen for the position will live at IRRI Headquarters on the campus of the University of the Philippines at Los Banos, 60 km south of Manila.

**Application:***
Applications with full documentation, including three referees (or the names of nominees) should be addressed to Dr. Kluas J. Lampe, Director General, IRRI, P.O. Box 933, 1089 Manila, Philippines. Telephone (63) 2-618-1928; FAX: (63) 2-618-2007.

**Deadline:**
Applications should be received not later than 15 May 1991. Interviews of short listed applicants will commence as soon as possible.

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**UNIVERSITY OF HAWAII AT MANOA**

**DEAN, COLLEGE OF NATURAL SCIENCES**

The University of Hawaii at Manoa invites nominations and applications for the position of Dean of the College of Natural Sciences. The individual chosen must be a dynamic leader with a strong commitment to excellence in teaching, research and service and have a vision of the College’s future that is compatible with Hawaii’s unique attributes.

**Duties:**
The Dean serves as chief academic and executive officer of the College and represents the University to the Board of Regents. The Dean has overall planning and coordinating responsibilities for the College and its eight departments.

**Minimum Qualifications:**
- PhD in an area of science.
- Demonstrated ability to attract and retain high-quality faculty.
- Strong record of research accomplishment and publication.
- Leadership experience in an academic setting.
- Strong interpersonal skills.
- Commitment to diversity and equal opportunity.
- Strong administrative skills.

**Desirable Qualifications:**
- Experience in academic administration.
- Experience in fundraising and development.
- Experience in budgeting and financial management.
- Experience in coordinating and implementing new programs.
- Experience in working with multiple stakeholders.

**Salary:**
The salary will be competitive and commensurate with qualifications.

**To apply:**
Applications should be submitted to: Dr. Richard C. Kazmaier, Chair, Search Committee, College of Natural Sciences, University of Hawaii at Manoa, 2444 Dole Street, Room 230A, Honolulu, Hawaii 96822.

The University of Hawaii at Manoa is an Affirmative Action, Equal Employment Opportunity Employer. Women, minority, and disabled candidates are encouraged to apply.

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**STAFF/RESEARCH BIOCHEMIST**

The Biochemical and Molecular Pathology Department at Merck Sharp & Dohme Research Laboratories is seeking an experienced biochemist with a strong enzymology background. Knowledge of UNIX and DOS is an interest in automation and robotics is desirable. This individual will be responsible for developing and implementing high capacity enzyme assays seeking novel agents from natural product sources. This person must be analytical, highly organized and possess good communication skills. The candidate must have a BS/MS or equivalent in Biochemistry.

Merck Sharp & Dohme Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume and the names of three references to: Human Resources Manager (R80-A3), Attn: Ad #72, P.O. Box 2000, Rahway, NJ 07065.

An equal opportunity/affirmative action employer.
SAUDI ARABIA

The King Faisal Specialist Hospital and Research Centre in Riyadh, Saudi Arabia has the following positions available.

RESEARCH PROGRAMMER/ANALYST-BS degree in a scientific discipline and experience working with biologists or clinicians in a computing capacity. Knowledge of Fortran and C and experience with PCs, VAXes or UNIX work stations.

BIOMEDICAL STATISTICIAN-PhD in Biostatistics or related scientific field, five years post PhD experience. Knowledge of biological image analysis or mathematical modeling of biological systems.

CHIEF RESEARCH TECHNICIAN-BS degree in life sciences and seven years research experience. Must be capable of establishing and maintaining mammalian fibroblast, lymphoblast, short-term myoblast and neuroblast cultures. Experience in molecular biology or biochemistry or a record of participation in publications is preferred.

ASSOCIATE SCIENTIST-Post-Doctoral position in the Virology and Immunology Section. Demonstrated research experience in cytokine effect on the immune response during infection (herpes viruses and papilloma viruses in particular), T and NK cell responses including cytotoxicity assays and characterizations of microbial antigens.

ASSOCIATE SCIENTIST-Post-Doctoral position with research experience in diagnosis of infectious diseases by nucleic acid probes and working experience with PCR and all molecular biology techniques. Knowledge of identification of antimicrobial resistance genes is desired.

EXECUTIVE ASSISTANT-BS degree in Hospital or Business Administration, MS degree preferred. Four years experience in management with scientific and research exposure preferred.

Eligible applicants should have a doctoral or equivalent degree and demonstrated accomplishments to qualify as a full professor at the Medical College of Pennsylvania, a minimum of five years of experience either directing or assisting with the direction of significant research in genetics, and demonstrated research credentials.

Interested candidates should apply by submitting a curriculum vitae to Dr. Leonard L. Ross, Annenberg Dean, The Medical College of Pennsylvania, c/o Allegheny Campus, 320 East North Avenue, Pittsburgh, PA 15212. An Equal Opportunity Employer.
PEPTIDE CHEMIST

Position available immediately for qualified peptide chemist to work in the Biological Resources Branch, National Institute of Allergy & Infectious Diseases, National Institutes of Health. Candidate should have expertise in synthesis, in purification and analysis. Experience in protein chemistry including compositional and sequence analysis would be helpful. Laboratorv management experience is desirable. Plenty of resources available. Salary will be commensurate with credentials.

Qualifìed and interested candidates should send currículo vitae and names and addresses of three (3) references to:

John E. Colligan, Ph.D., Chief
Biological Resources Branch
NIAID, NIH
Building 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-3213

NII is an Equal Opportunity Employer

UNIVERSITY OF LONDON
UNIVERSITY COLLEGE LONDON
CHAIR OF MOLECULAR BIOLOGY

The College is seeking to appoint to this new Chair a scientist of international standing with an active research programme in the Molecular Biology of eukaryotic cells, preferably with interests in the products and consequences of gene expression (rather than gene regulation), to join a Medical Research Council (MRC) Laboratory Interdisciplinary Research Centre (LIRC) in Molecular Cell Biology currently being established on the Gower Street campus at UCL. The IRC building will have excellent research facilities and will house 10–12 other research teams. It will have its own graduate student and senior fellowship programmes. The person appointed will play a leading role in developing these programmes and will also be able to develop research and other academic interactions within UCL.

Applications (11 copies: 1 from overseas applicants) should be sent to The Provost, University College London, Gower Street, London WC1E 6BT by 17 May 1991. Further details may be obtained from the Deputy Registrar. People interested in the post are encouraged to make informal contact with Professor C. Hopkins, Director of the IRC (Tel: 071-823 9137 or 225 8265; FAX 071-581 0865), Professor M. Raff (Tel: 071-380 7016) or Professor D. Brown (Tel: 071-387 7050 ext. 3761). Equal Opportunities Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION
PROTEIN ENGINEERING

Abbott Laboratories currently has a position available in our Corporate Molecular Biology Department. The candidate will develop methods to design, construct, and analyze novel peptides and proteins. The selected individual will apply modern techniques in gene cloning and mutagenesis, protein modeling, and selection methods employing filamentous phage. A Ph.D. or equivalent in biology or chemistry, laboratory experience in gene cloning, and previous participation in a protein structure-function project. This assignment will be for 2 years. For consideration, please send resume to: Ann Ribbens, Corporate Placement, Job #36071, Abbott Laboratories, 9000 Rockville Pike, Bethesda, MD 20892. Abbott is an Affirmative Action Employer.

ABOTT LABORATORIES

STAFF FELLOWSHIP. In the Malaria Section of the Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health (NIH), Public Health Service. The applicant will work on a project identifying recombinant proteins that will lead to protective immunity. The applicant should have a Ph.D. with experience documented in protein synthesis, cellular and molecular biology of the malaria parasite. Salary range: $24,000 to $36,000, depending on postdoctoral experience. Send curriculum vitae to: Louis H. Miller, Head, Malaria Section, Room 126, NIH, Bethesda, MD 20892. FAX: 301-402-0079.

The NIH is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
THE ROCKEFELLER UNIVERSITY

A postdoctoral position is available to study the biosynthesis of glycosyl-phosphatidylinositol membrane anchors of eukaryotic cell-surface proteins. Projects revolve around the biochemical steps involved in the construction of the glycosylipid and its transfer to protein, and genetic and biochemical approaches to studying enzymes involved in anchor biosynthesis in trypanosomes, yeast, and mammalian cells [see J. Biol. Chem. 266, 9043 (1991); EMBO J. 9, 4249 (1990)]. Previous experience with glycosylation and/or molecular biology is preferred, but not essential. Send curriculum vitae and names of two references to: Dr. Anant K. Menon, Laboratory of Molecular Pathology, The Rockefeller University, 1230 York Avenue, New York, N.Y. 10021. The Rockefeller University is an Equal Opportunity/Affirmative Action Employer.

CLINICAL CHEMISTRY FELLOWSHIPS at Mayo Clinic. Seeking applicants for 1- or 2-year fellowships in training in clinical chemistry. Fellows will qualify for certification through the Clinical Chemistry Board. Candidates will receive teaching and research experience in clinical chemistry. The program will emphasize research experience in the analysis and interpretation of clinical chemistry laboratory data. Fellowship positions are available immediately. Salary is negotiable. Send curriculum vitae and names and addresses of three referees to: Dr. John F. Reznikoff, Chairman, Department of Clinical Chemistry, Mayo Clinic, Rochester, MN 55905. For more information contact: Dr. Paul H. Mover, Mayo Clinic, Rochester, MN 55905. The Mayo Clinic is an equal opportunity employer.

POSTDOCTORAL FELLOWSHIP
NATIONAL INSTITUTES OF HEALTH (NIH)

Vacancy for a postdoctoral fellowship in the Laboratory of Molecular Growth Regulation, NICHID, NIH. The successful candidate will be expected to conduct research on the role of RNA polymerase II-transcribed interspersed repetitive sequences in control of mammalian cell growth and differentiation. Applicants must possess an M.D. or Ph.D. degree or equivalent experience and have experience in molecular cloning, analysis of gene expression, protein purification, and mammalian gene transfer. Salary range: $25,000 to $30,000. Send statement of research experience, and three letters of recommendation to: Dr. Bruce H. Howard, Laboratory of Molecular Growth Regulation, NICHID, Room 406, Building 10, National Institutes of Health, Building 10, Room 416, 9000 Rockville Pike, Bethesda, MD 20892 by 10 May 1991. NIH is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available 1 July 1991 in research related to human autoimmune diseases at the Harvard Medical School and the Center for Neurologic Diseases of Brigham and Women's Hospital. The position requires interest and expertise in human T cell immunology including T cell interactions and regulation by cytokines including TGF-beta. The position involves characterization of immunoregulatory T cell abnormalities in multiple sclerosis and other autoimmune disorders. The applicant must have significant experience in immunologic tolerance in humans. Send curriculum vitae plus names and telephone numbers of three references to: Dr. Howard L. Weiner, Co-Director, Center for Neurologic Diseases, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115.

POSTDOCTORAL POSITION. At Oak Ridge National Laboratory (ORNL) to do research on ultra-sensitive detection techniques as applied to DNA sequencing problems. Degree in analytical/physical chemistry or applied physics with background in optical spectroscopy preferred; should have experience with lasers and optics and background in instrumentation. For position information, contact: J. Michael Ramsey, ORNL, P.O. Box 2008, Oak Ridge, TN 37831–6142. For application material contact: Postgraduate Research Program/Graduate Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831–0117. Telephone: 615-576-3456.

POSTDOCTORAL FELLOWSHIP. Position in molecular and cellular immunology is available immediately to identify and isolate the intracellular protein targets of oncogenic ras p21 protein. Candidates should have the Ph.D. degree with experience in molecular biology and protein biochemistry. A Salary and three references to: Dr. Matthew R. Pincus, Departments of Biochemistry and Pathology, SUNY Health Science Center, East Adams Street, Syracuse, NY 13210. Telephone: 315-464-6785 or Dr. Paul Brandt-Rauf, Comprehensive Cancer Center, Columbia University, 630 West 168th Street, New York, NY 10032. Telephone: 212-305-3464.

THE MORRISON MEMORIAL POSTDOCTORAL FELLOWSHIP

The Department of Biochemistry, St. Jude Children's Research Hospital (SICRH), is enlarging its research efforts in the area of the molecular and cellular biology of signal transduction. As part of this expansion, the Board of Governors has established a fellowship in honor of Dr. Martin Morrison, the founding chairman of the department. The research programs with the department are well equipped and offer recent Ph.D. or M.D. graduates the opportunity to participate in energetic multidisciplinary groups dealing with a range of basic and applied research questions. SICRH offers a competitive stipend and annual review for reappointment. The beginning date of the fellowship is 1 July 1991. Current research programs within the department include:

* W. Y. Cheung: Regulatory properties and biological functions of calcium, Ca++-regulated enzymes and other Ca++-binding proteins.
* N. I. Isl: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation.
* S. Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.
* C. Rock: Role of phospholipid-derived second messengers in growth factor action.

Applicants should submit a brief statement of their research interests, curriculum vitae, and three names of references to:

The Morrison Postdoctoral Fellowship Department of Biochemistry
St. Jude Children's Research Hospital
332 North Lauderdale Avenue
Memphis, TN 38101

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POSTDOCTORAL PHARMACOLOGIST. To work on α1-adrenergic receptor subtypes, second messengers, and effects of psychoactive drugs in cell cultures. Contact: Dr. Kenneth Minsman, Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322 by 31 May 1991. Emory University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Two to three years available immediately in a laboratory that is cloning and expressing genes for the NMDA receptor from mammalian brain. Salary: $22,000 to $25,000. Area of study includes gene cloning, DNA sequencing, gene expression, protein purification, and ion channel measurements. Experience in molecular biology required. Deadline for applications: 6 May 1991. Send curriculum vitae and 3 references, and telephone numbers of three references to: Dr. Elias K. Michaelis, University of Kansas, Center for Biomedical Research, 2099 Constant Avenue, Lawrence, KS 66047. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Immediately available to characterize proteins of the newly discovered protozoan parasite, Neospora caninum. Candidate must have a Ph.D. in immunology or molecular biology. Salary is commensurate with experience ($31,116 to $37,294). Send applications (SF-171) to: Dr. J. P. Dubey, USDA, ARS, Zoonotic Diseases Laboratory, Building 1046, BARC-East, 10300 Baltimore Avenue, Beltsville, MD 20705-2350. Applications should be marked 2E003 and received by 1 July 1991. An Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH FELLOWSHIP. Available 1 July 1991. NIH-funded 2-year position for Ph.D. to study drug resistance and DNA topoisomerase in leukemia/colon cancer. Biochemistry, molecular biology, and tissue culture background desirable. Must be U.S. citizen or permanent resident. Send curriculum vitae to: Dr. Robert Silber, New York University Medical Center (NTUMC), 550 1st Avenue, New York, NY 10016. NYUMC is an Equal Opportunity/Affirmative Action Employer. Applications from minorities are strongly encouraged.


POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS. Available to study development of neuroendocrine systems, mechanisms of action of neuropeptides on anterior pituitary gland hormone secretion, and/or control mechanisms for reproductive hormone secretion. Candidates should have experience in molecular biology, developmental or cell biology, and/or reproductive physiology. Salaries are most competitive and negotiable. Send letter, curriculum vitae, and list of three references to: Charles A. Blake, Chairman, Department of Anatomy, Cell Biology, and Neurosciences, School of Medicine, Columbia, SC 29208. An Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE. Position available for EXPERIENCED ELECTRON MICROSCOPIST with mastery of scanning and transmission electron microscopy; serial sectioning, morphometry, freeze fracture; to do low-temperature scanning, transmission, high-voltage electron and light microscopy of lung, run laboratory. Send curriculum vitae, reprints, and sample micrographs to: Dr. Jacob Bastacky, 1-116, Lawrence Berkeley Laboratory, University of California, Berkeley, CA 94720.

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This is a faculty appointment within the School of Medicine. The level of appointment and salary will be commensurate with experience. Mail or FAX a letter of nomination or an application with curriculum vitae by May 1, 1991 to:

Nina W. Matheson, Director, Welch Medical Library
The Johns Hopkins University
1900 E. Monument St., Baltimore, MD.
Internet: nwm@welch.jhu.edu
Voice: 301-955-2702/FAX: 301-955-0985

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Peter L. Pearson, Ph.D., Director, Genome Data Base
The Johns Hopkins University
1830 E. Monument St., Baltimore, MD. 21205
Internet: pearson@welch.jhu.edu
Voice: 301-955-9705/FAX: 301-955-0054

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ASSOCIATE RESEARCH SCIENTIST: Research position available in the Department of Neurology at the University of California, San Francisco for a researcher with experience in molecular biology and genetics. The successful candidate will conduct experiments on the role of protooncogenes in the regulation of cell proliferation. Applicants should have a Ph.D. in molecular biology and experience in molecular genetics.

ASSOCIATE/POSTDOCTORAL GENETICIST: For research on mechanisms of mutagenesis and the function of replication in mutagenesis. Preference for recent degree with experience in molecular biology and genetics.

RESEARCH ASSOCIATE: Position available to conduct research on the development and characterization of new molecular technologies. Applicants should have a Ph.D. in molecular biology or a related field and experience in the development of novel molecular biology techniques. Send curriculum vitae and three references to: Dr. Jane Smith, Biology Department, University of California, Berkeley, CA 94720.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS IN BRAIN METAL PHYSIOLOGY/TOXICITY: Available immediately at the National Institute on Aging, National Institutes of Health, Public Health Service, Bethesda, Maryland, to examine (i) metal localization in postmortem human brain tissue and (ii) metal transport, distribution, and physiology/toxicologic actions within the central and peripheral nervous systems of small animals in aging and disease. Methods include x-ray microanalysis, atomic absorption spectroscopy, in situ studies in isolated regions, and microscopic examinations. Applicants should have experience in metal analysis and radiotracer counting. Experience in tissue sectioning and staining helpful. Positions available for up to 3 years with salary commensurate with experience.

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1992 COMPETITION

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MD-PhD POSTDOCTORAL
FELLOWSHIPS

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FELLOWSHIP TERMS
* Candidates must have completed an MD-PhD educational program and be accepted into a postdoctoral training program.
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* Fellowships are intended for independent research in the biomedical sciences, including the fields of: biological chemistry; cellular, molecular and structural biology; epidemiology; genetics; medical informatics; microbiology; immunology; pharmacology; physiology; pathology.
* Candidates must be citizens of the U.S. or Canada or permanent residents of the United States.
* Fellows must devote 80% of his/her time to research. Each Fellow will spend up to three days in the Merck Research Laboratories during his/her tenure as award recipient and present research results. Travel support will be provided for the Fellow's mentor. The Fellow must maintain membership in the American Federation for Clinical Research and must submit an abstract to and attend a Regional or National AFCR meeting each year.
* First-year support consists of a $40,000 stipend and a $3,000 allowance for travel, journal subscriptions and society memberships. In addition, the recipient's university will receive a $7,000 grant for supplies related to the funded research. Indirect costs will not be allowed.
* Fellowships may be renewable on an annual basis for an additional two years, pending approval of annual progress reports.

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* A curriculum vitae
* One page abstract of the proposed research
* A proposal of 8 to 10 pages, including background and references
* A statement of the applicant's career goals
* Two letters of recommendation
* Two reprints of published papers representative of the applicant's research
* A letter from the applicant's mentor describing how the proposed research will contribute to the applicant's development as a creative scientist.

IMPORTANT DATES

FOR APPLICATIONS AND INQUIRIES:
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RESEARCH SCIENTIST. Applicants are invited for a research scientist position. Candidates must have M.D. and/or Ph.D. degree. Strong background in immunohistopathology is required. Previous experience in hybridomas, antibody research, and tissue culture techniques desirable. Please submit curriculum vitae, publications, and names of three references to: Arif H. Bartal, M.D., D.Sc., ImmunoSciences, Inc., 160 Community Drive, Great Neck, N.Y. 11021. FAX: 516-466-2666. Equal Opportunity/Affirmative Action Employer.

MEETINGS

INTERNATIONAL CONGRESS OF PYTOTHERAPY, 16 to 19 October 1991 at Shilla Hotel, Seoul, Korea. For information contact: The Rosenstiel Press Foundation, U.S.A. and Pharmaceutical Society of Korea. The congress will be a forum for discussions and interactions between individuals in industry, government, and society. Basic and clinical research studies of aloe, kampo and other plant medicinal substances as modifiers of neurology, aging, immunology, inflammation, anti-microbial, and tumor activities will be presented. Invited presentations plus free communication platform and poster sessions are planned. Requests for abstracts (due July 1991) and congress information contact: Dr. Wendell D. Winters, Congress Chairman, Department of Microbiology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284-7783 Telephone: 512-567-3930 or FAX: 512-567-6612.

ANNOUNCEMENTS

RESEARCH AWARDS

The International Life Sciences Institute Research Foundation (ILSRI Research Foundation) announces that one award for a basic research project in TOXICOLOGY OR ENVIRONMENTAL HEALTH (to include human nutrition) of up to $100,000 over 3 years, will be made in 1992. The purpose of the award is to encourage an innovative new investigator in basic biomedical sciences to make the knowledge and techniques to basic problems related to comparative toxicology or environmental influences on growth, development, and aging. The closing date for applications is 3 September 1991. For further information write: Award Administrator, ILSRI Research Foundation, 1126 16th Street, N.W., Suite 100, Washington, D.C. 20036.

THE ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE OF THE UNIVERSITY OF MIAMI SEeks NOMINATIONS FOR THE ROSENSTIEL AWARD

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Rosenstiel Award Search Committee
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Rosenstiel School of Marine and Atmospheric Science
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